Cunningham, M.R.
1948

Prerequisites for teacher certification in physical ed. . . . . .

FOR REFERENCE
Do Not Take From This Room

BOSTON UNIVERSITY
SCHOOL OF EDUCATION
LIBRARY

Ed.
Thesis
Cunningham, M.R.
1948

The Gift of Marie R. Cunningham

FOR REFERENCE
Do Not Take From This Room

Ed
Thesis
Cunningham, M.R.
1948
Spec

BOSTON UNIVERSITY

SCHOOL OF EDUCATION

THESIS

PREREQUISITES FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES

Submitted by

Marie R. Cunningham

(B. S. Ed., Boston University, 1946)

In partial fulfillment of requirements for

the degree of Master of Education

1948

Boston University
School of Education
Library

Gift of M.R. Cunningham
School of Education
June 24, 1948
29541

FIRST READER: Leslie W. Irwin, Professor of Health and Physical Education

SECOND READER: John W. Harmon, Professor of Physical Education

THIRD READER: G. Lawrence Rarick, Associate Professor of Education

TABLE OF CONTENTS

CHAPTER		PAGE
I	INTRODUCTION	1
II	PROCEDURE	4
III	STATE REQUIREMENTS	11
IV	DISCUSSION	58
V	CONCLUSIONS	65
	BIBLIOGRAPHY	72

Digitized by the Internet Archive
in 2016 with funding from
Boston Library Consortium Member Libraries

https://archive.org/details/prerequisitesfor00cunn

TABLES

TABLE		PAGE
I.	REQUIREMENTS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES.	59, 60, 61

TABLES

TABLE		PAGE
I.	RECOMMENDATIONS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES.	59, 60, 61

CHAPTER I

INTRODUCTION

This study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, shows that there are many instances when the knowledge of state requirements for certification for teachers of physical education is, indeed, valuable.

Consider the recent college graduate who has been educated in his own state but who wishes to teach in an adjoining state because he is of the opinion that this state offers to the teacher of physical education better educational opportunities, more remunerative returns for services received, and pleasanter environment. However, unless the graduate knows of and possesses the necessary qualifications for teacher certification in physical education for the adjoining state his plans may be thwarted, for this study brings forth the fact that what is considered adequate preparation in one state may not be considered adequate in an adjoining state. In this case, therefore, a knowledge of other state requirements would perhaps have saved this person much time, money, and disappointment.

In student counseling the intelligent counselor is obligated, when promoting and checking the student's program, to make sure that included in the courses of the future physical educator are the essential subjects for teacher certification in the state in which the student wishes to teach. If the student is desirous of entering a graduate school

CHAPTER I

INTRODUCTION

This study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, shows that there are many instances when the knowledge of state requirements for certification for teachers of physical education is, indeed, valuable.

Consider the recent college graduate who has been educated in his own state but who wishes to teach in an adjoining state because he is of the opinion that this state offers to the teacher of physical education better educational opportunities, more remunerative returns for services rendered, and pleasanter environment. However, unless the graduate knows of and possesses the necessary qualifications for teacher certification in physical education for the adjoining state his plans may be thwarted. For this study brings forth the fact that what is considered adequate preparation in one state may not be considered adequate in an adjoining state. In this case, therefore, a knowledge of other state requirements would perhaps have saved this person much time, money, and disappointment.

In student counseling the intelligent counselor is obligated, when promoting and checking the student's program, to make sure that included in the courses of the future physical educator are the essential subjects for teacher certification in the state in which the student wishes to teach. If the student is desirous of entering a graduate school

for further study the counselor must again make sure that he has included in the student's program all the necessary subject material. To be able to do this type of student counseling wisely and correctly the earnest counselor must have at his disposal a knowledge of the up-to-date facts concerning requirements for certification for teachers of physical education in all forty-eight states of the United States.

It is necessary on many occasions for the college administrator in curriculum building to possess the facts regarding prerequisites for certification for teachers of physical education in the forty-eight states. In this way, the college administrator includes the essential courses and subject preparation to meet the requirements of his own state's certification for teachers of physical education. A progressive college administrator is, when planning his own program in physical education, also, desirous of knowing the requirements of all adjoining states and all other states as well so that he may by comparison evaluate his own program.

To the legislator, the knowledge of state requirements for certification for teachers of physical education is very essential. The legislator who possesses integrity and an earnest desire to raise the educational standards of his state wants to know what other states require for certification for teachers of physical education. He is especially interested in the regulations of all his neighboring states. He is, if progressive, interested in all state requirements. With this valuable information then at his disposal he is able to devise proper educational standards suitable for his state of which his constituents

for further study the counselor must again make sure that he has included in the student's program all the necessary subject material. To be able to do this type of student counseling wisely and correctly the earnest counselor must have at his disposal a knowledge of the up-to-date facts concerning requirements for certification for teachers of physical education in all forty-eight states of the United States.

It is necessary on many occasions for the college administrator in curriculum building to possess the facts regarding prerequisites for certification for teachers of physical education in the forty-eight states. In this way, the college administrator includes the essential courses and subject preparation to meet the requirements of his own state's certification for teachers of physical education. A progressive college administrator is, when planning his own program in physical education, also, desirous of knowing the requirements of all adjoining states and all other states as well so that he may by comparison evaluate his own program.

To the legislator, the knowledge of state requirements for certification for teachers of physical education is very essential. The legislator who possesses integrity and an earnest desire to raise the educational standards of his state wants to know what other states require for certification for teachers of physical education. He is especially interested in the regulations of all his neighboring states. He is, if progressive, interested in all state requirements. With this valuable information then at his disposal he is able to devise proper educational standards suitable for his state of which his constituents

may be justly proud.

This study, also, brings up-to-date the information of a similar study done by Morehouse and Schaaf [1/] in 1942.

1/ Morehouse, Laurence E., Ph.D., University of Kansas; and Schaaf, Oscar, University of Wichita: "Prerequisites for Teacher Certification in Physical Education in the United States." Research Quarterly, October, 1942, Vol. XIII, No. 3, p.323.

may be justly proud.

This study, also, brings up-to-date the information of a similar study done by Moreno[1] and Conant in 1942.

[1] Moreno, Lawrence E., Ph.D., University of Kansas; and Schaal, Dean, Variety of Kinship: "Prerequisites for Teacher Certification in Physical Education in the United States." Research Quarterly, October, 1942, Vol. XIII, No. 3, p.[illegible].

CHAPTER II

PROCEDURE

To make this study it was first necessary to list the forty-eight states of the United States. The next step was to alphabetize the list thusly:

1.	Alabama	18.	Maryland
2.	Arizona	19.	Massachusetts
3.	Arkansas	20.	Michigan
4.	California	21.	Minnesota
5.	Colorado	22.	Mississippi
6.	Connecticut	23.	Missouri
7.	Delaware	24.	Montana
8.	Florida	25.	Nebraska
9.	Georgia	26.	Nevada
10.	Idaho	27.	New Hampshire
11.	Illinois	28.	New Jersey
12.	Indiana	29.	New Mexico
13.	Iowa	30.	New York
14.	Kansas	31.	North Carolina
15.	Kentucky	32.	North Dakota
16.	Louisiana	33.	Ohio
17.	Maine	34.	Oklahoma

CHAPTER II

PROCEDURE

To make this study it was first necessary to list the forty-eight states of the United States. The next step was to alphabetize the list thusly:

1. Alabama
2. Arizona
3. Arkansas
4. California
5. Colorado
6. Connecticut
7. Delaware
8. Florida
9. Georgia
10. Idaho
11. Illinois
12. Indiana
13. Iowa
14. Kansas
15. Kentucky
16. Louisiana
17. Maine
18. Maryland
19. Massachusetts
20. Michigan
21. Minnesota
22. Mississippi
23. Missouri
24. Montana
25. Nebraska
26. Nevada
27. New Hampshire
28. New Jersey
29. New Mexico
30. New York
31. North Carolina
32. North Dakota
33. Ohio
34. Oklahoma

35. Oregon
36. Pennsylvania
37. Rhode Island
38. South Carolina
39. South Dakota
40. Tennessee
41. Texas
42. Utah
43. Vermont
44. Virginia
45. Washington
46. West Virginia
47. Wisconsin
48. Wyoming

As all needed information concerning this study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, was to be obtained through the state board of education located in the capitol city of each state, it was necessary to list the capitol city of each state.

1. Montgomery, Alabama
2. Phoenix, Arizona
3. Little Rock, Arkansas
4. Sacramento, California
5. Denver, Colorado
6. Hartford, Connecticut
7. Dover, Delaware
8. Tallahassee, Florida
9. Atlanta, Georgia
10. Boise, Idaho
11. Springfield, Illinois
12. Indianapolis, Indiana
13. Des Moines, Iowa

35. Oregon
36. Pennsylvania
37. Rhode Island
38. South Carolina
39. South Dakota
40. Tennessee
41. Texas
42. Utah
43. Vermont
44. Virginia
45. Washington
46. West Virginia
47. Wisconsin
48. Wyoming

As all needed information concerning this study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, was to be obtained through the state board of education located in the capital city of each state, it was necessary to list the capital city of each state.

1. Montgomery, Alabama
2. Phoenix, Arizona
3. Little Rock, Arkansas
4. Sacramento, California
5. Denver, Colorado
6. Hartford, Connecticut
7. Dover, Delaware
8. Tallahassee, Florida
9. Atlanta, Georgia
10. Boise, Idaho
11. Springfield, Illinois
12. Indianapolis, Indiana
13. Des Moines, Iowa

14. Topeka, Kansas
15. Frankfort, Kentucky
16. Baton Rouge, Louisiana
17. Augusta, Maine
18. Annapolis, Maryland
19. Boston, Massachusetts
20. Lansing, Michigan
21. St. Paul, Minnesota
22. Jackson, Mississippi
23. Jefferson City, Missouri
24. Helena, Montana
25. Lincoln, Nebraska
26. Carson City, Nevada
27. Concord, New Hampshire
28. Trenton, New Jersey
29. Santa Fe, New Mexico
30. Albany, New York
31. Raleigh, North Carolina
32. Bismarck, North Dakota
33. Columbus, Ohio
34. Oklahoma City, Oklahoma
35. Salem, Oregon
36. Harrisburg, Pennsylvania
37. Providence, Rhode Island
38. Columbia, South Carolina

14. Topeka, Kansas

15. Frankfort, Kentucky

16. Baton Rouge, Louisiana

17. Augusta, Maine

18. Annapolis, Maryland

19. Boston, Massachusetts

20. Lansing, Michigan

21. St. Paul, Minnesota

22. Jackson, Mississippi

23. Jefferson City, Missouri

24. Helena, Montana

25. Lincoln, Nebraska

26. Carson City, Nevada

27. Concord, New Hampshire

28. Trenton, New Jersey

29. Santa Fe, New Mexico

30. Albany, New York

31. Raleigh, North Carolina

32. Bismarck, North Dakota

33. Columbus, Ohio

34. Oklahoma City, Oklahoma

35. Salem, Oregon

36. Harrisburg, Pennsylvania

37. Providence, Rhode Island

38. Columbia, South Carolina

39. Pierre, South Dakota
40. Nashville, Tennessee
41. Austin, Texas
42. Salt Lake City, Utah
43. Montpelier, Vermont
44. Richmond, Virginia
45. Olympia, Washington
46. Charleston, West Virginia
47. Madison, Wisconsin
48. Cheyenne, Wyoming

A letter asking for the minimum requirements for certification for teachers of physical education was drawn up and then typed. Next, sufficient mimeographed copies were made and one copy sent to each state's board of education. A facsimile of this letter follows:

579 Weld Street,
West Roxbury, Massachusetts,
November 1, 1946.

State Board of Education,
(address here)

Dear Sir;

Will you send to me at your earliest convenience the minimum requirements for certification for teachers of physical education in your state? Thank you.

Yours truly,
Marie R. Cunningham.

39. Pierre, South Dakota

40. Nashville, Tennessee

41. Austin, Texas

42. Salt Lake City, Utah

43. Montpelier, Vermont

44. Richmond, Virginia

45. Olympia, Washington

46. Charleston, West Virginia

47. Madison, Wisconsin

48. Cheyenne, Wyoming

A letter asking for the minimum requirements for certification for teachers of physical education was drawn up and then typed. Next, sufficient mimeographed copies were made and one copy sent to each state's board of education. A facsimile of this letter follows:

579 Weld Street,

West Roxbury, Massachusetts,

November 1, 1946.

State Board of Education,

(address here)

Dear Sir:

Will you send to me at your earliest convenience the minimum requirements for certification for teachers of physical education in your state? Thank you.

Yours truly,

Marie B. Cunningham.

All letters were mailed on November fifth. The first reply was received from Hartford, Connecticut on November sixteenth. Within the next twelve weeks letters in the following order came from Little Rock, Arkansas; Indianapolis, Indiana; Montgomery, Alabama; Dover, Delaware; Providence, Rhode Island; Montpelier, Vermont; Tallahassee, Florida; Augusta, Maine; Des Moines, Iowa; Lansing, Michigan; Annapolis, Maryland; Trenton, New Jersey; Salem, Oregon; Atlanta, Georgia; Denver, Colorado; Boise, Idaho; Springfield, Illinois; Raleigh, North Carolina; Columbus, Ohio; Oklahoma City, Oklahoma; Frankfort, Kentucky; Boston, Massachusetts; Harrisburg, Pennsylvania; Cheyenne, Wyoming; Richmond, Virginia; Charleston, West Virginia; Nashville, Tennessee; Phoenix, Arizona; Bismarck, North Dakota; Topeka, Kansas; St. Paul, Minnesota; Jackson, Mississippi; Carson City, Nevada; Sante Fe, New Mexico; Baton Rouge, Louisiana; Jefferson City, Missouri; Concord, New Hampshire; Sacramento, California; Madison, Wisconsin; Columbia, South Carolina; Austin, Texas; Salt Lake City, Utah; Olympia, Washington; Helena, Montana; Lincoln, Nebraska; Pierre, South Dakota; and Albany, New York. Thus, one hundred per cent replies were received from the first communication.

Each individual reply was typed to conform to minimum statements of essential requirements and was returned to each state department of education concerned for checking with the following letter:

All letters were mailed on November fifth. The first reply was received from Hartford, Connecticut on November eleventh. Within the next twelve weeks letters in the following order came from Little Rock, Arkansas; Indianapolis, Indiana; Montgomery, Alabama; Dover, Delaware; Providence, Rhode Island; Montpelier, Vermont; Tallahassee, Florida; Augusta, Maine; Des Moines, Iowa; Lansing, Michigan; Annapolis, Maryland; Trenton, New Jersey; Salem, Oregon; Atlanta, Georgia; Denver, Colorado; Boise, Idaho; Springfield, Illinois; Raleigh, North Carolina; Columbus, Ohio; Oklahoma City, Oklahoma; Frankfort, Kentucky; Boston, Massachusetts; Harrisburg, Pennsylvania; Cheyenne, Wyoming; Richmond, Virginia; Charleston, West Virginia; Nashville, Tennessee; Phoenix, Arizona; Bismarck, North Dakota; Topeka, Kansas; St. Paul, Minnesota; Jackson, Mississippi; Carson City, Nevada; Santa Fe, New Mexico; Baton Rouge, Louisiana; Jefferson City, Missouri; Concord, New Hampshire; Sacramento, California; Madison, Wisconsin; Columbia, South Carolina; Austin, Texas; Salt Lake City, Utah; Olympia, Washington; Helena, Montana; Lincoln, Nebraska; Pierre, South Dakota; and Albany, New York. Thus, one-hundred per cent replies were received from the first communication.

Each individual reply was typed to conform to minimum statements of essential requirements and was returned to each state department of education concerned for checking with the following letter:

579 Weld Street,

West Roxbury, Massachusetts,

April 10, 1947.

State Department of Education,

(Correct address filled in here)

Dear Sir;

Will you check the attached sheet which lists the requirements for teacher certification in physical education in your state and send the information back to me in the enclosed self-addressed, stamped envelope? Thank you.

Yours truly,

Marie R. Cunningham

In some instances discrepancies arose and the requirements had to be restated and again returned to the specific state department of education for rechecking until the statement was finally approved. The state requirements in which discrepancies were found were California, Kansas, Michigan, Nevada, New Hampshire, Rhode Island, and Vermont.

In the final analysis statements of approval were received from forty-four states. These states were Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South

979 Weld Street,

East Roxbury, Massachusetts,

April 10, 1947.

State Department of Education,

(Correct address filled in here)

Dear Sir:

Will you check the attached sheet which lists the requirements for teacher certification in physical education in your state and send the information back to me in the enclosed self-addressed, stamped envelope? Thank you.

Yours truly,

Marie R. Cunningham

In some instances discrepancies arose and the requirements had to be restated and again returned to the specific state department of education for rechecking until the statement was finally approved. The state requirements in which discrepancies were found were California, Kansas, Michigan, Nevada, New Hampshire, Rhode Island, and Vermont.

In the final analysis statements of approval were received from forty-four states. These states were Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South

Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming. The state department of education of Kentucky stated that it did not understand the second communication. Iowa, Montana, and South Carolina did not reply to the second communication. A few of the states are now contemplating changes in their requirements.

CHAPTER III

STATE REQUIREMENTS

ALABAMA

I. Graduation with a bachelor's or master's degree from a standard institution approved for the training of secondary teachers

II. Fifteen credits in Education distributed in semester hours as follows:

A. General Psychology, 3 semester hours

B. Educational Psychology, 3 semester hours

C. Principles of High School Teaching, 3 semester hours

D. Electives in the field of Secondary Education, 6 semester hours

Note: A maximum of two semester hours of excess credits in one or more of the three required subjects in education may be accepted as electives in secondary education, provided the applicant has completed a minimum of two courses totaling at least four semester hours in secondary education not included in the list of specified courses.

III. Credit for an academic major of 18 semester hours in an approved subject

IV. Credit for an academic minor of 12 semester hours in physical

CHAPTER III

STATE REQUIREMENTS

ALABAMA

I. Graduation with a bachelor's or master's degree from a standard institution approved for the training of secondary teachers

II. Fifteen credits in Education distributed in semester hours as follows:

A. General Psychology, 3 semester hours

B. Educational Psychology, 3 semester hours

C. Principles of High School Teaching, 3 semester hours

D. Electives in the field of Secondary Education, 6 semester hours

Note: A maximum of two semester hours of excess credits in one or more of the three required subjects in education may be accepted as electives in secondary education, provided the applicant has completed a minimum of two courses totaling at least four semester hours in secondary education not included in the list of specified courses.

III. Credit for an academic major of 18 semester hours in an approved subject

IV. Credit for an academic minor of 12 semester hours in physical

education

These are the requirements for a class B temporary certificate which is valid for a period of three years. This certificate is not subject to renewal under any conditions. To be eligible for the class B Secondary Professional Alabama Teacher's Certificate an applicant must present credentials showing:

I. Graduation with a bachelor's degree from a standard institution meeting requirements as prescribed by the State Board of Education for the training of secondary teachers

II. Twenty-four credits in Education distributed in semester hours as follows:

A. General Psychology, 3 semester hours

B. Educational Psychology, 3 semester hours

C. Principles of High School Teaching, 3 semester hours

D. Materials and Methods of Teaching Physical Education in High School, 3 semester hours

E. Directed Teaching of physical Education in High School, 3 semester hours*

F. Electives in the field of Secondary Education, 9 semester hours*

Note: 1. If the applicant completes courses in materials and methods of teaching both the major academic subject and the minor academic subject, one of these courses may be accepted as an elective in secondary education.

education

These are the requirements for a class B temporary certificate which is valid for a period of three years. This certificate is not subject to renewal under any conditions. To be eligible for the class B Secondary Professional Alabama Teacher's Certificate an applicant must present credentials showing:

I. Graduation with a bachelor's degree from a standard institution meeting requirements as prescribed by the State Board of Education for the training of secondary teachers

II. Twenty-four credits in Education distributed in semester hours as follows:

A. General Psychology, 3 semester hours

B. Educational Psychology, 3 semester hours

C. Principles of High School Teaching, 3 semester hours

D. Materials and Methods of Teaching Physical Education in High School, 3 semester hours

E. Directed Teaching of physical Education in High School, 3 semester hours*

F. Electives in the field of Secondary Education, 9 semester hours*

Note: 1. If the applicant completes courses in materials and methods of teaching both the major academic subject and his minor academic subject, one of these courses may be accepted as an elective in secondary education.

2. A maximum of three semester hours of excess credits in one or more of the five required educational subjects may be accepted as electives in secondary education, provided the applicant has completed a minimum of three courses totaling at least six semester hours in secondary education not included in the list of specified courses.

III. An academic major of 24 semester hours in an approved subject

IV. An academic minor of 18 semester hours in Physical Education

* With the approval of the institution, an applicant, who has had three years of successful experience as a regular teacher, may be excused from directed teaching of physical education, provided twelve semester hours in electives are earned, to give the total of twenty-four semester hours in secondary education.

ARIZONA

I. Special certificates shall be granted upon evidence of graduation from a regular four year high school course, or the equivalent, and in addition, thereto, evidence of graduation from a regular four year course in a college of physical education, physical education department of a teachers college or university whose accrediting is recognized by the State Board of Education.

II. Requirements are:

A. Not less than thirty semester hours, or the equivalent, in the field of physical education

2. A maximum of three semester hours of excess credits in one or more of the five required educational subjects may be accepted as electives in secondary education, provided the applicant has completed a minimum of three courses totaling at least six semester hours in secondary education not included in the list of specified courses.

III. An academic major of 24 semester hours in an approved subject

IV. An academic minor of 18 semester hours in Physical Education

* With the approval of the institution, an applicant, who has had three years of successful experience as a regular teacher, may be excused from director teaching of physical education, provided twelve semester hours in electives are earned, to give the total of twenty-four semester hours in secondary education.

ARIZONA

I. Special certificates shall be granted upon evidence of graduation from a regular four year high school course, or the equivalent, and in addition, thereto, evidence of graduation from a regular four year course in a college of physical education, physical education department of a teachers college or university whose accrediting is recognized by the State Board of Education.

II. Requirements are:

A. Not less than thirty semester hours, or the equivalent, in the field of physical education

B. Not less than eighteen semester hours in education and psychology appropriate to the field, including not less than five semester hours of practice teaching or approved teaching experience in the public schools either of which must be in physical education.

III. This certificate shall be valid for four years and shall entitle the holder to teach in grades 1 to 12, inclusive, and junior college.

ARKANSAS

I. Graduation from an approved four year college

II. Sixteen semester hours in professional subjects

III. Twenty-four semester hours in physical education which includes:

A. History, Organization, Principles, Administration,and Conduct of Physical Education, 3 semester hours

B. Methods in Health and Safety Education, 3 semester hours *

C. Professional or Applied Anatomy, Physiology, Kinesiology, 4 semester hours

D. Hygiene, 2 semester hours **

E. Health, 2 semester hours

F. Direction of Recreational Activities, Sports, Games and Stunts, Tennis, Golf, Badminton (for women - soccer and hockey), 4 semester hours **

G. Coaching Team Sports: basketball, baseball, swimming,

E. Not less than eighteen semester hours in education and psychology appropriate to the field, including not less than five semester hours of practice teaching or approved teaching experience in the public schools either of which must be in physical education.

III. This certificate shall be valid for four years and shall entitle the holder to teach in grades 1 to 12, inclusive, and junior college.

ARKANSAS

I. Graduation from an approved four year college

II. Sixteen semester hours in professional subjects

III. Twenty-four semester hours in physical education which include:

A. History, Organization, Principles, Administration, and Conduct of Physical Education, 3 semester hours

B. Methods in Health and Safety Education, 3 semester hours *

C. Professional or Applied Anatomy, Physiology, Kinesiology, 4 semester hours

D. Hygiene, 2 semester hours **

E. Health, 2 semester hours

F. Direction of Recreational Activities, Sports, Games and Stunts, Tennis, Golf, Badminton (for women - soccer and hockey), 4 semester hours **

G. Coaching Team Sports: basketball, baseball, swimming,

and methods of an organized program, men - 4 semester hours, and women - 2 semester hours

H. Rhythmics and Gymnastics, men - 2 semester hours, women - 4 semester hours

* The course in methods is not counted in the total number of hours required since this course will be contained in the education requirement.

** This course is included in the general education requirements.

CALIFORNIA

I. The completion of a four year college course with a bachelor's degree

II. A minimum of sixteen semester hours of work in the fields of English, science, social studies, and physical education

III. A minimum of fifteen semester hours of professional work in education, including:

A. A course dealing with the aims, scope, and desirable outcomes of the elementary and the secondary school

B. Directed teaching in physical education, 4 semester hours

C. Other courses in education organized for the training of public school teachers

IV. A minimum of fifteen semester hours selected from at least four of the following:

A. Biology

and methods of an organized program, men - 4 semester hours, and women - 2 semester hours

H. Rhythmics and Gymnastics, men - 2 semester hours, women - 4 semester hours

* The course in methods is not counted in the total number of hours required since this course will be contained in the education requirement.

** This course is included in the general education requirements.

CALIFORNIA

I. The completion of a four year college course with a bachelor's degree

II. A minimum of sixteen semester hours of work in the fields of English, science, social studies, and physical education

III. A minimum of fifteen semester hours of professional work in education, including:

A. A course dealing with the aims, scope, and desirable outcomes of the elementary and the secondary school

B. Directed teaching in physical education, 4 semester hours

C. Other courses in education organized for the training of public school teachers

IV. A minimum of fifteen semester hours selected from at least four of the following:

A. Biology

B. Anatomy

C. Physiology

D. Hygiene

E. Psychology

F. Sociology

G. Chemistry

V. A minimum of twenty-four semester hours selected from at least seven of the following, with a minimum of six semester hours in activities in physical education:

A. Principles of physical education

B. Techniques of teaching activities

C. Administration of physical education

D. Kinesiology (applied anatomy)

E. Applied physiology (physiology of exercise)

F. Activities in physical education

G. Community recreation

H. Individual program adaptation (corrective physical education)

I. Physical education tests and measurements

J. Health education

K. Growth and development of the individual

COLORADO

I. General Requirements

A. The applicant must be a graduate of a standard four year high school or must have had educational training

B. Anatomy

C. Physiology

D. Hygiene

E. Psychology

F. Sociology

G. Chemistry

V. A minimum of twenty-four semester hours selected from at least seven of the following, with a minimum of six semester hours in activities in physical education:

A. Principles of physical education

B. Techniques of teaching activities

C. Administration of physical education

D. Kinesiology (applied anatomy)

E. Applied physiology (physiology of exercise)

F. Activities in physical education

G. Community recreation

H. Individual program adaptation (corrective physical education)

I. Physical education tests and measurements

J. Health education

K. Growth and development of the individual

COLORADO

I. General requirements

A. The applicant must be a graduate of a standard four year high school or must have had educational training

equivalent to such a course.

B. In addition to the foregoing, two years, 90 quarter (60 semester) hours, of collegiate training are required. This training must have been completed in accredited institutions of higher learning.

C. At least 15 (10 semester) quarter hours of credit in education must be included in the collegiate training as follows:

a. Psychology, 3 quarter (2 semester) hours

b. Practice Teaching in Physical Education, 3 quarter (2 semester) hours. The requirement in practice teaching may be waived by the issuing authority on evidence of at least one year of successful experience in teaching physical education under supervision.

c. Methods in Teaching Physical Education and such general methods of teaching as are applicable to physical education, 9 quarter (6 semester) hours

II. Special Requirements

A. Corrective Gymnastics, 3 quarter hours

B. History of Physical Education, 3 quarter hours

C. Methods in Formal Activities, 2 quarter hours

D. Methods in Play Activities, 5 quarter hours

E. Practice Work in Formal and Play Activities, 5 quarter hours

equivalent to such a course.

B. In addition to the foregoing, two years, 90 quarter (60 semester) hours, of collegiate training are required. This training must have been completed in accredited institutions of higher learning.

C. At least 15 (10 semester) quarter hours of credit in education must be included in the collegiate training as follows:

a. Psychology, 3 quarter (2 semester) hours

b. Practice Teaching in Physical Education, 3 quarter (2 semester) hours. The requirement in practice teaching may be waived by the issuing authority on evidence of at least one year of successful experience in teaching physical education under supervision.

c. Methods in Teaching Physical Education and such general methods or teaching as are applicable to physical education, 9 quarter (6 semester) hours

II. Special Requirements

A. Corrective Gymnastics, 3 quarter hours

B. History of Physical Education, 3 quarter hours

C. Methods in Formal Activities, 2 quarter hours

D. Methods in Play Activities, 5 quarter hours

E. Practice Work in Formal and Play Activities, 5 quarter hours

F. Organization and Administration, 3 quarter hours

G. Hygiene and First Aid, 6 quarter hours

I. Physiology (including Physiology of Exercise) 6 quarter hours

J. Biology, 3 quarter hours

K. Anatomy and Kinesiology, 6 quarter hours

L. Physical Examination, 3 quarter hours

M. Methods of Health Education, 1 quarter hour

CONNECTICUT

A degree from an accredited college certifying to completion of an approved four year teacher training course in physical education.

DELAWARE

I. Bachelor's degree satisfactorily completed in a standard college or university

II. Specialization in Physical Education to the extent of 60 semester hours, including

A. Six semester hours in methods of teaching physical education in both high and elementary schools

B. Six semester hours in practice teaching

III. Six semester hours in Professional subjects which may include

A. Philosophy of Education

B. Principles of Education

C. Introduction to Teaching

D. Educational or Adolescent Psychology

F. Organization and Administration, 3 quarter hours

G. Hygiene and First Aid, 6 quarter hours

I. Physiology (including Physiology of Exercise) 6 quarter hours

J. Biology, 3 quarter hours

K. Anatomy and Kinesiology, 6 quarter hours

L. Physical Examination, 3 quarter hours

M. Methods of Health Education, 1 quarter hour

CONNECTICUT

A degree from an accredited college certifying to completion of an approved four year teacher training course in physical education.

DELAWARE

I. Bachelor's degree satisfactorily completed in a standard college or university

II. Specialization in Physical Education to the extent of 60 semester hours, including

A. Six semester hours in methods of teaching physical education in both high and elementary schools

B. Six semester hours in practice teaching

III. Six semester hours in professional subjects which may include

A. Philosophy of Education

B. Principles of Education

C. Introduction to Teaching

D. Educational or Adolescent Psychology

FLORIDA

Graduation from an institution which requires four years of training with the following preparation:

I. General Education

At least six semester hours are required in each of the following fields:

A. Science

B. Social Studies

C. English

II. Professional Education

Eighteen semester hours of education in addition to any courses in general psychology

III. Physical Education

Twenty-one semester hours of health and physical education of which not more than nine semester hours may be coaching courses

IV. United States Constitution

Assertion of allegiance to the Constitution of The United States and completion of at least six semester hours of college work in American History and Government including the Constitution of The United States or the passing of an examination on the Constitution of The United States as given by the State Department of Education.

GEORGIA

Three years of college work (90 semester hours) including at least three courses (nine semester hours) in professional education and at least 12

semester hours in physical education.

IDAHO

I. 64 semester hours in an approved college or university which includes 15 semester hours of Idaho School Law and both Elementary and High School Courses of Study

II. 15 semester hours in Physical Education

III. 34 semester hours in electives

ILLINOIS

Graduation from a recognized college with a bachelor's degree which includes:

I. General education, 33 semester hours

A. English, 8 semester hours

B. Natural science, 6 semester hours

C. Social science, 6 semester hours

D. Humanities, 6 semester hours

E. Health and physical education, 3 semester hours

F. Additional work in any of the above fields, 4 semester hours

II. Professional education, 16 semester hours

A. Pupil development and the learning process, 2 or 3 semester hours

B. Organization of subject matter and methods of teaching physical education, 2 or 3 semester hours

C. The American educational system, 2 or 3 semester hours

semester hours in physical education.

IDAHO

I. 64 semester hours in an approved college or university which includes 15 semester hours of Idaho School Law and both Elementary and High School Courses of Study

II. 15 semester hours in Physical Education

III. 34 semester hours in electives

ILLINOIS

Graduation from a recognized college with a bachelor's degree which includes:

I. General education, 33 semester hours

A. English, 8 semester hours

B. Natural science, 6 semester hours

C. Social science, 6 semester hours

D. Humanities, 6 semester hours

E. Health and physical education, 3 semester hours

F. Additional work in any of the above fields, 4 semester hours

II. Professional education, 16 semester hours

A. Pupil development and the learning process, 2 or 3 semester hours

B. Organization of subject matter and methods, of teaching physical education, 2 or 3 semester hours

C. The American educational system, 2 or 3 semester hours

D. Electives from the areas of guidance, and/or tests and measurements, 2 or 4 semester hours

*E. Student teaching in physical education, 5 semester hours

III. Physical education, 35 semester hours

*One year of actual teaching experience will be accepted in lieu of student teaching.

INDIANA

Graduation with a bachelor's degree from an approved university with 30 semester hours in general education, 18 semester hours in professional education, and 40 semester hours in health and physical education to be distributed as follows:

I. Three-eighths of the hours in health and safety education with a minimum of two hours in each of these subjects:

A. Zoology or animal biology

B. First aid and safety

C. Personal and community hygiene

D. Organization and administration of school health program

E. Physiology

F. Human anatomy

II. One-half of the hours in physical education, with two hours in each of these subjects:

A. Orientation and organization

B. Tests and measurements in health and physical education

C. Highly organized sports

D. Recreational sports

D. Electives from the areas of guidance, and/or tests and measurements, 2 or 4 semester hours

*E. Student teaching in physical education, 5 semester hours

III. Physical education, 35 semester hours

*One year of actual teaching experience will be accepted in lieu of student teaching.

INDIANA

Graduation with a bachelor's degree from an approved university with 30 semester hours in general education, 18 semester hours in professional education, and 40 semester hours in health and physical education to be distributed as follows:

I. Three-eighths of the hours in health and safety education with a minimum of two hours in each of these subjects:

A. Zoology or animal biology

B. First aid and safety

C. Personal and community hygiene

D. Organization and administration of school health program

E. Physiology

F. Human anatomy

II. One-half of the hours in physical education, with two hours in each of these subjects:

A. Orientation and organization

B. Tests and measurements in health and physical education

C. Widely organized sports

D. Recreational sports

E. Gymnastics

1. Tumbling, apparatus, tactics, calisthenics, body mechanics, individual athletic events

F. Rhythmic activities

1. Folk, clog, social, modern, and tap dancing

G. Activities for the elementary grades

III. One-eighth of the hours in public recreation shall include crafts, dramatics, music, mass or group games.

IOWA

I. Degree and diploma from an institution approved by the Board of Educational Examiners.

II. Fifteen Semester hours in Professional Training.

A. Principles of education, 3 semester hours

B. Psychology and its application to education, 6 semester hours

C. Methods of teaching, 3 semester hours

D. Directed observation and supervised student teaching, 3 semester hours

III. Twenty semester hours in physical education distributed as follows:

A. Six semester hours in courses covering principles, administration, methods, and supervision

B. Four semester hours in courses covering the principles of the school health program.

C. Ten semester hours in courses covering methods of special-

E. Gymnastics

1. Tumbling, apparatus, bastics, calisthenics, body mechanics, individual athletic events

F. Rhythmic activities

1. Folk, clog, social, modern, and tap dancing

G. Activities for the elementary grades

III. One-eighth of the hours in public recreation small include games, dramatics, music, mass or group games.

IOWA

I. Degree and diploma from an institution approved by the Board of educational Examiners.

II. Fifteen Semester hours in Professional Training.

A. Principles of education, 3 semester hours

B. Psychology and its application to education, 6 semester hours

C. Methods of teaching, 3 semester hours

D. Directed observation and supervised student teaching, 3 semester hours

III. Twenty semester hours in physical education, distributed as follows:

A. Six semester hours in courses covering principles, administration, methods, and supervision

B. Four semester hours in courses covering the principles of the school health program.

C. Ten semester hours in courses covering methods of special-

ized physical education activities. These credits are given for lecture hours and not for participation on an athletic team or in field work.

KANSAS

A special certificate valid in any elementary school, junior high school, or senior high school for a two-year period for teaching physical education may be issued to the applicant who holds a baccalaureate degree, or who has secured 120 semester hours credit from an accredited college, provided an official transcript of the college record shows the following credit:

I. 40 semester hours from general cultural courses such as: English, language, social science, biological science, physical science, general psychology, mathematics, and fine arts courses of an academic nature not to exceed 10 hours.

II. 18 semester hours' credit in psychology and education which must include 3 semester hours' supervised practice teaching, or three years of full time teaching experience (24 months), 3 semester hours' educational psychology, 12 semester hours' elective in education distributed in 3 or more fields. Not to exceed 3 semester hours credit in psychology and 3 semester hours credit in observation and practice teaching may be presented to meet this requirement.

III. 65 semester hours' credit, not fewer than 40 of which must be in physical education.

ized physical education activities. These credits are given for lecture hours and not for participation on an athletic team or in field work.

KANSAS

A special certificate valid in any elementary school, junior high school, or senior high school for a two-year period for teaching physical education may be issued to the applicant who holds a baccalaureate degree, or who has secured 120 semester hours credit from an accredited college, provided an official transcript of the college record shows the following credit:

I. 40 semester hours from general cultural courses such as: English, language, social science, biological science, physical science, general psychology, mathematics, and fine arts courses of an academic nature not to exceed 10 hours.

II. 18 semester hours' credit in psychology and education which must include 3 semester hours' supervised practice teaching, or three years of full time teaching experience (24 months), 3 semester hours' educational psychology, 12 semester hours' elective in education distributed in 3 or more fields. Not to exceed 3 semester hours credit in psychology and 3 semester hours credit in observation and practice teaching may be presented to meet this requirement.

III. 65 semester hours' credit, not fewer than 40 of which must be in physical education.

KENTUCKY

I. Graduation with a bachelor's degree from a standard or approved university, college, or teachers college with a minimum of 120 semester hours of credit, distributed according to the following general pattern:

A. General education - 30 semester hours

B. Professional education - 18 semester hours

1. A minimum of 2 hours each in the following 5 areas; Educational psychology, general methods, principles of high school teaching, guidance, and special methods in physical education.

2. Permission is granted to apply not more than 2 or 3 semester hours of professionalized subject matter toward any comprehensive or restricted area.

3. An additional 3 hours may be selected from the aforementioned areas or from: tests and measurements, mental hygiene, psychology of adolescence, extra-curricular activities. Credit of 5 hours shall be earned in student teaching.

C. Comprehensive area - Physical Education - 40 semester hours

I. Approximately three-eighths of the hours in health and safety education with a minimum of 2 hours in each of these subjects: zoology or animal biology,

KENTUCKY

I. Graduation with a bachelor's degree from a standard or approved university, college, or teachers college with a minimum of 120 semester hours of credit, distributed according to the following general pattern:

A. General education - 30 semester hours

B. Professional education - 18 semester hours

1. A minimum of 2 hours each in the following 5 areas: educational psychology, general methods, principles of high school teaching, guidance, and special methods in physical education.

2. Permission is granted to apply not more than 2 or 3 semester hours of professionalized subject matter to aid any comprehensive or restricted area.

3. An additional 3 hours may be selected from the aforementioned areas or from: tests and measurements, mental hygiene, psychology of adolescence, extra-curricular activities. Credit of 5 hours shall be earned in student teaching.

C. Comprehensive area - Physical education - 40 semester hours

1. Approximately three-eighths of the hours in health and safety education with a minimum of 2 hours in each of these subjects: zoology or animal biology,

first aid and safety, personal and community hygiene, organization and administration of school health program, physiology, and human anatomy.

2. Approximately one-half of the hours in physical education, with a minimum of 2 hours in each of these subjects: orientation and organization, tests and measurements in health and physical education, highly organized sports, recreational sports, gymnastics (tumbling, apparatus tactics, calisthenics, body mechanics, individual athletic events), rhythmic activities for the elementary grades.

3. Approximately one-eighth of the hours in public recreation shall include crafts, dramatics, music, mass or group games.

LOUISIANA

Graduation from an approved curriculum of four years of specialized education which includes:

I. Eighteen semester hours in professional education

II. Forty-one semester hours in health and physical education distributed as follows:

A. Principles, organization, and administration, 5 semester hours

B. Basic science (applied anatomy and kinesiology), 3 semester hours

C. Health education, 6 semester hours

first aid and safety, personal and community hygiene, organization and administration of school health program, physiology, and human anatomy.

2. Approximately one-half of the hours in physical education, with a minimum of 2 hours in each of these subjects: orientation and organization, tests and measurements in health and physical education, highly organized sports, recreational sports, gymnastics (tumbling, apparatus tactics, calisthenics, body mechanics, individual athletic events), rhythmic activities for the elementary grades.

3. Approximately one-eighth of the hours in public recreation shall include crafts, dramatics, music, mass or group games.

LOUISIANA

Graduation from an approved curriculum of four years of specialized education which includes:

I. Eighteen semester hours in professional education

II. Forty-one semester hours in health and physical education distributed as follows:

A. Principles, organization, and administration, 5 semester hours

B. Basic science (applied anatomy and kinesiology), 3 semester hours

C. Health education, 6 semester hours

D. Professional techniques in physical education, 18 semester hours

E. Anatomy and physiology, 6 semester hours

F. Electives in physical education, 3 semester hours

MAINE

First provisional professional certificate requires graduation from a four year course in an accredited school of physical education.

First provisional nonprofessional certificate requires completion of a three year course in an approved college of physical education, or four years of college, or four years combination of college and normal school training together with twelve semester hours of credit, six of which must be in approved courses in physical education and six in the field of biology and/or physiology.

MARYLAND

Completion of a standard four year college course including:

I. Sixteen hours in education

II. Thirty hours in physical education distributed as follows:

A. Foundation sciences, including anatomy and physiology, personal hygiene, and community hygiene

B. Courses in physical and health education, including physical education activities throughout the four year course, introduction to physical education, protection and emergency care of injuries, nature of play, leadership organization, mechanical analysis of activities and

D. Professional techniques in physical education, 18 semester hours

E. Anatomy and physiology, 6 semester hours

F. Electives in physical education, 3 semester hours

MAINE

First provisional professional certificate requires graduation from a four year course in an accredited school of physical education.

First provisional nonprofessional certificate requires completion of a three year course in an approved college of physical education, or four years of college, or four years combination of college and normal school training together with twelve semester hours of credit, six of which must be in approved courses in physical education and six in the field of biology and/or physiology.

MARYLAND

Completion of a standard four year college course including:

I. Sixteen hours in education

II. Thirty hours in physical education distributed as follows:

A. Foundation sciences, including anatomy and physiology, personal hygiene, and community hygiene

B. Courses in physical and health education, including physical education activities throughout the four year course, introduction to physical education, protection and emergency care of injuries, nature of play, leadership organization, mechanical analysis of activities and

mechanical-anatomical analysis, and physiology of activities.

III. Rank in upper four-fifths of the class and grade of at least "C" in practice teaching.

MASSACHUSETTS

There is no general certification law, the only requirements being those set up by regulation of the State Department of Education. The great majority of teachers are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

MICHIGAN

I. Graduation with a bachelor's degree from an approved or accredited teacher education institution

II. Twenty semester hours in professional courses including:

A. Directed teaching, 5 semester hours

B. Methods

C. Principles of teaching

D. Psychology of education

E. History of education, or philosophy of education

III. A major of twenty-four semester hours in health and physical education and two minors in academic subjects or a minor of fifteen semester hours in health and physical education, one academic major, and one academic minor.

mechanical-anatomical analysis, and physiology of activities.

III. Rank in upper four-fifths of the class and grade of at least "C" in practice teaching.

MASSACHUSETTS

There is no general certification law, the only requirements being those set up by regulation of the State Department of Education. The great majority of teachers are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

MICHIGAN

I. Graduation with a bachelor's degree from an approved or accredited teacher education institution

II. Twenty semester hours in professional courses including:

A. Directed teaching, 5 semester hours

B. Methods

C. Principles of teaching

D. Psychology of education

E. History of education, or philosophy of education

III. A major of twenty-four semester hours in health and physical education and two minors in academic subjects or a minor of fifteen semester hours in health and physical education, one academic major, and one academic minor.

MINNESOTA

High School Certification

I. Degree from a state teachers college, a state college of education, or an accredited liberal arts college

II. A major in physical education

III. Fifteen semester (22½ quarter) hours in education including:

A. Educational psychology, 3 semester hours

B. General methods (technic of teaching), 3 semester hours

C. Physical education methods, 3 semester hours

D. Observation and practice teaching in physical education, 3 semester hours

Elementary Grades Certification

A two year course in an accredited teacher training institution.

MISSISSIPI

30 quarter hours in physical education are required. However, the certification requirements are undergoing revision at the present time.

MISSOURI

Baccalaureate degree from an accredited college or university with:

I. Eighteen hours of professional education including:

A. Orientation

1. Educational psychology

2. A general orientation course, such as history or philosophy of education

B. Methods

1. General techniques or methods in high school teaching
2. Special techniques in physical education
3. A general administration course for teachers

C. Teaching

1. Student or apprentice teaching, 5 hours

II. Health and Physical Education, 24 hours, including:

A. Health

B. Physiology

C. Physical Activities

D. Recreation

(Part-time Teachers in Physical Education, 15 hours)

MONTANA

For high school certification:

Graduation from a fully accredited four-year college with

1. Twenty-four quarter hours in education
2. A major of forty-five quarter hours in physical education
3. A minor of thirty quarter hours in high school subjects

NEBRASKA

I. Completion of four-year college teacher training course with baccalaureate degree and recommendation of school

II. Eighteen semester hours in education

1. General techniques or methods in high school teaching

2. Special techniques in physical education

3. A general administration course for teachers

C. Teaching

1. Student or apprentice teaching, 5 hours

II. Health and Physical Education, 24 hours, including:

A. Health

B. Physiology

C. Physical Activities

D. Recreation

(Part-time Teachers in Physical Education, 15 hours)

MONTANA

For high school certification:

Graduation from a fully accredited four-year college with

1. Twenty-four quarter hours in education

2. A major of forty-five quarter hours in physical education

3. A minor of thirty quarter hours in high school subjects

NEBRASKA

1. Completion of four-year college teacher training course with baccalaureate degree and recommendation of school

II. Sixteen semester hours in education

A. Three semester hours in supervised teaching, grades 7 to 12

B. Two semester hours in physiology and hygiene

III. A minor of fifteen semester hours in physical education

NEVADA

I. Bachelor of arts or bachelor of science degree from a standard college, normal school, or university which includes eighteen semester hours training in the field of professional education, including, also, four semester hours of practice teaching.

II. Two years of successful teaching experience in public schools may be submitted in lieu of practice teaching.

III. The majority of the hours in professional education must be in the secondary field.

NEW HAMPSHIRE

I. Elementary Certificate

A. Graduate of a three or four year curriculum, in a standard post-secondary institution, designed to prepare teachers in the field of Physical Education.

B. Course must include 12 semester hours in education.

II. High School Certificate

A. Graduate of a four year curriculum, in a standard post-secondary institution, designed to prepare teachers in the field of Physical Education, in-

cluding at least 24 semester hours of work in Physical Education.

B. Course must include 12 semester hours in education.

NEW JERSEY

I. A degree from a four year physical education teacher training curriculum with

A. Forty-eight credits in physical education

B. Thirty credits in English, social studies and science

C. Eighteen credits in professional education, including six credits in methods of teaching, three credits in educational psychology, and three credits in principles of education

D. 150 clock hours of practice teaching

II. This certificate permits the holder to teach physical education in grades one through twelve.

NEW MEXICO

I. High school graduation or the equivalent

II. 60 semester or 90 term hours of college training or the equivalent, 20 semester or 30 term hours of which must be in the field of health and physical education.

NEW YORK

Completion of an approved four year curriculum leading to a baccalaurate degree including:

including at least 24 semester hours of work in Physical Education.

B. Courses must include 12 semester hours in education.

NEW JERSEY

I. A degree from a four year physical education teacher training curriculum with

A. Forty-eight credits in physical education

B. Twenty credits in English, social studies and science

C. Eighteen credits in professional education, including six credits in methods of teaching, three credits in educational psychology, and three credits in principles of education

D. 150 clock hours of practice teaching

II. This certificate permits the holder to teach physical education in grades one through twelve.

NEW MEXICO

I. High school graduation or the equivalent

II. 60 semester or 90 term hours of college training or the equivalent, 20 semester or 30 term hours of which must be in the field of health and physical education.

NEW YORK

Completion of an approved four year curriculum leading to a baccalaureate degree including:

I. Eighteen semester hours in professional courses approved for public school teaching

A. Supervised student practice teaching including conferences on teaching problems, 4 to 8 semester hours

B. Teaching methods and materials in physical education, 4 to 8 semester hours

C. Psychology for teachers, 2 to 6 semester hours

D. History, philosophy, problems and/or principles of education, 2 to 6 semester hours

II. Thirty-six semester hours* in Physical Education and Hygiene

A. Applied anatomy, 2 to 4 semester hours

B. Physiology of exercise, 2 to 4 semester hours

C. Physical inspection, 2 to 4 semester hours

D. First aid and safety education, 2 to 4 semester hours

E. Physical education for atypical children, 2 to 4 semester hours

F. Physical education tests and measurements, 2 to 4 semester hours

G. Administration, organization and supervision (physical education, recreation and camping), 6 to 8 semester hours.

H. Physical education skills and applied technics, 14 to 16 semester hours

1. Group games of low organization (games adapta-

I. Fifteen semester hours in professional courses approved for public school teaching

A. Supervised student practice teaching including conference on teaching problems, 4 to 6 semester hours

B. Teaching methods and materials in physical education, 4 to 8 semester hours

C. Psychology for teachers, 2 to 6 semester hours

D. History, philosophy, problems and/or principles of education, 2 to 6 semester hours

II. Thirty-six semester hours* in Physical Education and Hygiene

A. Applied anatomy, 2 to 4 semester hours

B. Physiology of exercise, 2 to 4 semester hours

C. Physical inspection, 2 to 4 semester hours

D. First aid and safety education, 2 to 4 semester hours

E. Physical education for atypical children, 2 to 4 semester hours

F. Physical education tests and measurements, 2 to 4 semester hours

G. Administration, organization and supervision (physical education, recreation and camping), 6 to 8 semester hours.

H. Physical education skills and applied technics, 14 to 16 semester hours

I. Group games or low organization (games adapte-

ble to adult groups and to children of elementary age),men - 2, women - 2

2. Dual and single games (tennis, handball, badminton, track and field events, etc.), men - 3, women - 3

3. Group games of high organization (football, soccer, rugby, basketball, volley ball, speed ball, lacrosse, field hockey, etc.,), men - 3, women - 2

4. Rhythms and dances, men - 2, women - 4

5. Gymnastics and stunts, men - 2, women - 4

6. Aquatics, men - 1, women - 1

*Prerequisites: Eighteen semester hours in science including one course in each of the following fields: anatomy, physiology, biology, and bacteriology.

NORTH CAROLINA

The minimum scholastic training represents graduation from a standard four year college. The subject for which certification is granted appears on the face of the certificate.

I. Professional requirements are:

	Semester Hours
A. Educational Psychology	2
B. Principles of High School Teaching or Problems in Secondary Education	2
C. Materials and Methods in one subject field	2

ble to adult groups and to children of ele-
mentary age), men - 2, women - 2

2. Dual and single games (bandle, handball, badminton, track and field events, etc.), men - 3, women - 3

3. Group games of high organization (football, soccer, rugby, basketball, volley ball, speed ball, lacrosse, field hockey, etc.), men - 3, women - 2

4. Rhythms and dances, men - 2, women - 4

5. Gymnastics and stunts, men - 2, women - 4

6. Aquatics, men - 1, women - 1

*Prerequisite: Sixteen semester hours in science including one course in each of the following fields: anatomy, physiology, biology, and bacteriology.

NORTH CAROLINA

The minimum scholastic training requirements graduation from a standard four year college. The subject for which certification is granted appears on the face of the certificate.

I. Professional requirements are:

	Semester Hours
A. Educational Psychology	2
B. Principles of High School Teaching or Problems in Secondary Education	2
C. Materials and Methods in one subject field	2

	Semester Hours
D. Observation and Directed Teaching	3
E. Electives	9

II. A full-time teacher of Health and Physical Education in the junior and senior high school must have thirty semester hours which shall include:

A. Human anatomy and physiology	6
B. Principles, organization, administration, supervision of Physical Education and Health Education	6 to 8
C. Physical Education skills and applied techniques	6 to 8

1. Group games of low organization (games adaptable to adult groups and to children of elementary age)
2. Dual and single games (tennis, handball, golf, badminton, track and field events, etc.)
3. Group games of high organization (football, soccer, rugby, basketball, baseball, volley ball, speedball, lacrosse, field hockey, etc.)
4. Rhythms and dances
5. Gymnastics and stunts
6. Aquatics

D. Individual corrective physical education	2 to 3

	Semester Hours
D. Observation and Directed Teaching	3
E. Electives	9

II. A full-time teacher of Health and Physical Education in the junior and senior high school must have thirty semester hours which shall include:

A. Human anatomy and physiology	6
B. Principles, organization, administration, supervision of Physical Education and Health Education	6 to 8
C. Physical Education skills and applied techniques	6 to 8

1. Group games of low organization (games adaptable to adult groups and to children of elementary age)
2. Dual and single games (tennis, handball, golf, badminton, track and field events, etc.)
3. Group games of high organization (football, soccer, rugby, basketball, baseball, volley ball, speedball, lacrosse, field hockey, etc.)
4. Rhythms and dances
5. Gymnastics and stunts
6. Aquatics

D. Individual corrective physical education	2 to 3

Semester Hours

E. Health Education:

1. Methods and Materials in Health Education

If Methods and Materials are used toward fulfilling the general education requirements, the additional work in the field of Health and Physical Education must be taken to fulfill major requirements 2 to 3

2. Hygiene, including personal health, public health, child hygiene, sanitation, immunology, and allied subjects 2 to 4

F. Biology 6

NORTH DAKOTA

A bachelor's degree from an accredited college or university, approved as a teacher training institution, with sixteen semester hours in education and a major or minor in physical education.

OHIO

Graduation from a four year college course of a teacher-training institution, approved in the field of physical education. Included within, or in excess of, the requirements for the degree, the following professional preparation is necessary:

Semester Hours

A. Educational Psychology 2-3

(Prerequisite: General Psychology)

	Semester Hours
E. Health Education:	
1. Methods and Materials in Health Education	
If Methods and Materials are used toward fulfilling the general education requirements, the additional work in the field of Health and Physical Education must be taken to fulfill major requirements	2 to 3
2. Hygiene, including personal health, public health, child hygiene, sanitation, immunology, and allied subjects	2 to 4
F. Biology	6

NORTH DAKOTA

A bachelor's degree from an accredited college or university, approved as a teacher training institution, with sixteen semester hours in education and a major or minor in physical education.

OHIO

Graduation from a four year college course of a teacher-training institution, approved in the field of physical education. Included within, or in excess of, the requirements for the degree, the following professional preparation is necessary:

	Semester Hours
A. Educational Psychology (Prerequisite: General Psychology)	2-3

		Semester Hours
B.	Principles of Teaching (or Education)	2-3
C.	School Administration, Organization, or Management	2-3
D.	Methods of Teaching	2-6
E.	Student Teaching (on both elementary and secondary levels)	3-5

F. Electives to make a minimum of 17 semester hours of professional credit from the following or related courses:

1. History of Education
2. Tests and Measurements
3. Educational Sociology
4. Introduction to Teaching
5. Philosophy of Education

G. Forty semester hours in Physical Education to be distributed as follows:

1.	Principles, Organization, and Administration of Physical and Health Education	4
2.	Theory and Practice of Physical Education (games, stunts, gymnastics, apparatus, dancing, tumbling and swimming)	12
3.	Theory and Practice of Physical Education (coaching, interscholastic and intramural sports)	6
4.	Health Education	10
5.	Individual Corrective Gymnastics and Normal	

	Semester Hours
B. Principles of Teaching (or Education)	2-3
C. School administration, Organization, or Management	2-3
D. Methods of Teaching	2-6
E. Student Teaching (on both elementary and secondary levels)	3-5

F. Electives to make a minimum of 17 semester hours of professional credit from the following or related courses:

1. History of Education
2. Tests and Measurements
3. Educational Sociology
4. Introduction to Teaching
5. Philosophy of Education

G. Forty semester hours in Physical Education to be distributed as follows:

1. Principles, Organization, and Administration of Physical and Health Education	4
2. Theory and Practice of Physical Education (games, stunts, gymnastics, apparatus, dancing, tumbling and swimming)	12
3. Theory and Practice of Physical Education (coaching, intercollegiate and intramural sports)	6
4. Health Education	10

5. Individual Corrective Gymnastics and Normal

	Semester Hours
Diagnosis	2
6. Human Anatomy and Physiology	6

OKLAHOMA

I. GENERAL REQUIREMENTS:

Work completed in standard, accredited colleges and universities, only will be accepted as a basis for teachers' certificates, and applicants' grades must be as high as the average required for graduation from the institutions attended. Only 62 hours completed in an accredited two-year junior college, and 31 hours completed in an accredited one-year junior college, may be used for certification purposes.

II. COURSES IN EDUCATION, not more than six semester hours of which shall be completed during the first two years of the college course:

		1 Year	Life
A. Education Courses, including six hours of student teaching	Semester hours	12	18
B. Suggested Courses: Adolescent Psychology, Educational Psychology, Philosophy or History of Education, Measurements and Methods.			
C. General Methods and Management, including Oklahoma School Law		3	3
	total Education Courses	15	21

III. COURSES IN PHYSICAL EDUCATION:

	Semester hours	
A. Activity or Participation courses	6	10

	Semester Hours
Diagnosis	2
6. Human Anatomy and Physiology	6

OKLAHOMA

I. GENERAL REQUIREMENTS:

Work completed in standard, accredited colleges and universities, only will be accepted as a basis for teachers' certificates, and applicants' grades must be as high as the average required for graduation from the institutions attended. Only 62 hours completed in an accredited two-year junior college, and 31 hours completed in an accredited one-year junior college, may be used for certification purposes.

II. COURSES IN EDUCATION, not more than six semester hours of which shall be completed during the first two years of the college course:

	I Year	Late
A. Education Courses, including six hours of student teaching	Semester hours 12	18
B. Suggested Courses: Adolescent Psychology, Educational Psychology, Philosophy or History of Education, Measurements and Methods.		
C. General Methods and Management, including Oklahoma School Law	3	3
total Education Courses	15	21

III. COURSES IN PHYSICAL EDUCATION:

	Semester hours	
A. Activity or Participation courses	6	10

		I Year	Life
B. First Aid	Semester hours	2	2
C. Boy and Girl leadership		2	2
D. Anatomy		2	2
E. Theory of Activities, including Theory of Intramurals		4	4
Total Physical Education Courses		16	20

IV. OTHER REQUIRED COURSES:

A. English	6	8
B. American History and Government	6	6
C. Oklahoma History (or ½ unit in high school or 70% in state examination)	2	2
D. Agriculture (or ½ unit in high school or 70% in the state examination)	2	2
E. Minimum in all subjects	90%	
F. Minimum degree	None, A.B., or B.S.	

These requirements are undergoing revision at the present time.

OREGON

I. Graduation from a standard college, university, or teachers college.

II. The completion in a standard college, university, or teachers college of a five-year secondary teacher training course or its equivalent of at least 45 quarter hours beyond the requirements for the baccalaureate degree, which course must include the following:

	Semester hours	1 year Table
8. First aid	2	2
9. Boy and Girl Leadership	2	2
10. Anatomy	2	2
11. Theory of Activities, including Theory of Intramurals	4	4
Total physical education courses	16	20

IV. OTHER REQUIRED COURSES:

1. English	6	6
2. American History and Government	6	6
3. Oklahoma History (or ½ unit in high school or 70% in state examination)	2	2
4. Agriculture (or ½ unit in high school or 70% in the state examination)	2	2
5. Minimum in all subjects	90%	
6. Minimum degree	none, A.B., or B.S.	

These requirements are undergoing revision at the present time.

OTHER

I. Graduation from a standard college, university, or teachers college.

II. The graduation in a standard college, university, or teachers college of a five-year secondary teacher training course or the equivalent of at least 45 quarter hours beyond the requirements for the baccalaureate degree, which courses must include the following:

A. 40 quarter hours in Education, of which 15 quarter hours shall be on the upper-division or graduate level and shall be taken during the last three quarters of preparation.

B. Six quarter hours of Supervised Teaching.

NOTE: Five years of successful teaching experience acceptable to the superintendent of public instruction may be offered in lieu of Supervised Teaching, provided the last year of such teaching has been within the three years immediately preceding application for certification.

C. Four quarter hours of Oregon history and Oregon school law and system of education.

NOTE: This provision may be waived to allow an otherwise fully qualified teacher to receive a one-year certificate.

D. 24 semester or 36 quarter hours, or a major in Physical Education.

III. Any teacher holding a regular secondary teacher's certificate may teach physical education in this state without holding the regular special physical education certificate.

PENNSYLVANIA

I. Provisional College Certificates issued to graduates of approved four year teacher education curricula in health and physical education in accredited colleges and universities.

A. 40 quarter hours in Education, of which 15 quarter hours shall be on the upper-division or graduate level and shall be taken during the last three quarters of preparation.

B. Six quarter hours of Supervised Teaching.

NOTE: Five years of successful teaching experience acceptable to the superintendent of public instruction may be offered in lieu of Supervised Teaching, provided the last year of such teaching has been within the three years immediately preceding application for certification.

C. Four quarter hours of Oregon history and Oregon school law and system of education.

NOTE: This provision may be waived to allow an otherwise fully qualified teacher to receive a one-year certificate.

D. 24 semester or 36 quarter hours, or a major in Physical Education.

III. Any teacher holding a regular secondary teacher's certificate may teach physical education in this state without holding the regular special physical education certificate.

PENNSYLVANIA

I. Provisional College Certificates issued to graduates of approved four year teacher education curricula in health and physical education in accredited colleges and universities.

II. Permanent College Certificate - the provisional college certificate will be made permanent on evidence of three years of teaching on the provisional college certificate in the public schools of Pennsylvania, with a rating of "middle" or better; and the satisfactory completion of six semester hours of additional education of college grade, one-half of which must be professional.

III. A college certificate may be extended to include the teaching of health and physical education on the satisfactory completion of courses selected from an approved teacher education curriculum in health and physical education. These courses must consist of at least thirty semester hours and should be approximately distributed as follows:

A. One-third health education

B. One-third physical education

C. One-third theory, organization and administration courses, and student teaching in health and physical education classes.

RHODE ISLAND

I. Provisional Certificate (valid for one year)

A. Academic requirements

1. Graduation from an approved secondary school

2. Graduation from an approved college, college of education, normal, or technical school (requiring four years of attendance for gradu-

II. Permanent College Certificate - the provisional college certificate will be made permanent on evidence of three years of teaching on the provisional college certificate in the public schools of Pennsylvania, with a rating of "middle" or better; and the satisfactory completion of six semester hours of additional education of college grade, one-half of which must be professional.

III. A college certificate may be extended to include the teaching of health and physical education on the satisfactory completion of courses selected from an approved teacher education curriculum in health and physical education. These courses must consist of at least thirty semester hours and should be approximately distributed as follows:

A. One-third health education

B. One-third physical education

C. One-third theory, organization and administration courses, and student teaching in health and physical education classes.

RHODE ISLAND

I. Provisional Certificate (valid for one year)

A. Academic requirements

1. Graduation from an approved secondary school

2. Graduation from an approved college, college of education, normal, or technical school (requiring four years of attendance for gradu-

ation)

NOTE: A graduate of a three-year state normal school with five years of experience or a graduate of a two-year state normal school with ten years of experience, may be certified provisionally.

B. Professional requirements

1. Art and Science of Education, 200 clock hours - to include "History of Education" and "Educational Psychology" with a minimum of 30 and a maximum of 50 clock hours in each course.

NOTE: The course in "Rhode Island Education" is required of all applicants for certification, the course to be completed within one year after certification is granted.

C. Holders of a provisional certificate shall make a substantial advance annually by successful completion of one or more approved courses in summer school or extension service toward the 400 clock hour requirement.

II. Professional Certificate (valid for five years)

A. Academic requirements (See I-A)

B. Professional requirements

1. Art and Science of Education, 400 clock hours - to include the following with a minimum of 30,

ation)

NOTE: A graduate of a three-year state normal school with five years of experience or a graduate of a two-year state normal school with ten years of experience, may be certified provisionally.

B. Professional requirements

1. Art and Science of Education, 200 clock hours - to include "History of Education" and "Educational Psychology" with a minimum of 30 and a maximum of 50 clock hours in each course.

NOTE: The course in "Rhode Island Education" is required of all applicants for certification, the course to be completed within one year after certification is granted.

C. Holders of a provisional certificate shall make a substantial advance annually by successful completion of one or more approved courses in summer school or extension service toward the 400 clock hour requirement.

II. Professional Certificate (valid for five years)

A. Academic requirements (See I-A)

B. Professional requirements

1. Art and Science of Education, 400 clock hours - to include the following with a minimum of 30.

and a maximum of 50 clock hours in each:

a. History of Education

b. Educational Psychology

c. Principles of Education

d. Rhode Island Education

NOTE: Courses in General Psychology, Genetic Psychology, Philosophy, Sociology, etc., are not accepted.

C. Practice Teaching 400 clock hours

NOTE: The practice teaching requirement may be waived after 5 years of satisfactory service in R. I. public schools, following visitation and inspection of classes by a committee of master teachers.

SOUTH CAROLINA

I. General Education:	Semester Hours
A. English	12
B. Biological and Physical Sciences (A minimum of 6 semester hours each)	12
C. Social Studies (Must cover at least three fields)	12
D. Fine Arts	6
E. Health Education	3
F. General Mathematics	3

(A standard examination may be used to demonstrate proficiency in any area.)

and a maximum of 50 clock hours in each:

a. History of Education

b. Educational Psychology

c. Principles of Education

d. Rhode Island Education

NOTE: Courses in General Psychology, Genetic Psychology, Philosophy, Sociology, etc., are not accepted.

C. Practice Teaching 100 clock hours

NOTE: The practice teaching requirement may be waived after 5 years of satisfactory service in R. I. public schools, following visitation and inspection of classes by a committee of master teachers.

SOUTH CAROLINA

I. General Education:	Semester Hours
A. English	12
B. Biological and Physical Sciences (A minimum of 6 semester hours each)	12
C. Social Studies (Must cover at least three fields)	12
D. Fine Arts	6
E. Health Education	3
F. General Mathematics	3

(A standard examination may be used to demonstrate proficiency in any area.)

If this experience in general education is to contribute in an effective way to the development of the individual as a person, it is felt that the work should be pointed in the following directions:

English - These courses should be functional courses involving the satisfactory use of written and oral language, plus a background of general literature. Proficiency in the use of oral and written English should be indicated in all classes and in phases of college life.

Science - A basic knowledge and understanding of both the biological and physical sciences is necessary. It is suggested that these courses deal with the facts that bear directly upon the lives of individuals.

Social Studies - This experience should enable students to understand the growth and development of our civilization; to show how history, political science, economics, geography, sociology, religion, and philosophy can contribute to the solution of current social and political problems. It should lead to the development of a scientific and objective attitude; to a sympathetic understanding of our own culture and the culture of other people; and to an effective citizenship.

Fine Arts - Art and Music for Living -- This shall deal primarily with the appreciation of art and music in everyday living, and shall encourage participation in the

If this experience in general education is to contribute in an effective way to the development of the individual as a person, it is felt that the work should be pointed in the following directions:

English - These courses should be functional courses involving the satisfactory use of written and oral language, plus a background of general literature. Proficiency in the use of oral and written English should be indicated in all classes and in phases of college life.

Science - A basic knowledge and understanding of both the biological and physical sciences is necessary. It is suggested that these courses deal with the facts that bear directly upon the lives of individuals.

Social Studies - This experience should enable students to understand the growth and development of our civilization; to show how history, political science, economics, geography, sociology, religion, and philosophy can contribute to the solution of current social and political problems. It should lead to the development of a scientific and objective attitude; to a sympathetic understanding of our own culture and the culture of other people; and to an effective citizenship.

Fine Arts - Art and Music for Living -- This shall deal primarily with the appreciation of art and music in everyday living, and shall encourage participation in the

production of both to the extent of the student's ability.

Health Education - Health Education should give instruction in maintenance of community group, and personal health. Opportunity should be provided for experience in many leisure time activities.

General Mathematics - This course should be a basic course in general mathematics, emphasizing the functional mathematics needed in solving problems of home and community life.

Remedial Courses - Institutions are expected to offer remedial courses with no additional credit where the indicated time is too short to develop competency in the required area.

II. Professional Education:

A minimum of 18 semester hours of professional education is required of all teachers.

A.	Human Growth and Development.	12 semester hours
B.	Principles, philosophy, and General Techniques	
C.	Directed Teaching	6 " "

Human Growth and Development: This area would include those knowledges and experiences commonly found in such courses as child psychology, adolescent psychology, educational psychology, and mental hygiene.

production of both to the extent of the student's ability.

Health Education - Health Education should give instruction in maintenance of community group, and personal health. Opportunity should be provided for experience in many leisure time activities.

General Mathematics - This course should be a basic course in general mathematics, emphasizing the functional mathematics needed in solving problems of home and community life.

Remedial Courses - Institutions are expected to offer remedial courses with no additional credit where the indicated time is too short to develop competency in the required area.

II. Professional Education:

A minimum of 18 semester hours of professional education is required of all teachers.

A. Human Growth and Development. 12 semester hours

B. Principles, Philosophy, and General Techniques

C. Directed Teaching 6 " "

Human Growth and Development: This area would include those knowledges and experiences commonly found in such courses as child psychology, adolescent psychology, educational psychology, and mental hygiene.

This work should give an insight into children -- how they develop and how they learn. It should bring the students in contact with many children in different learning situations. It is suggested that this area be treated as a whole, rather than be broken down into segemented courses.

Principles, Philosophy, and General Techniques: This area would include the material usually offered in such courses as philosophy of education, principles of education, educational sociology, principles of curriculum construction, techniques and materials of teaching, psychology of school subjects, educational measurements, etc....

Directed Teaching: This work should be closely integrated with other phases of professional study, especially work on techniques and materials. Where directed teaching is done on a period basis and is closely checked by the supervisor of directed teaching, a minimum of 90 clock hours of observation and teaching is required. Where the directed teaching is done over a full day, week, or more, a minimum of six weeks of full-time observation and teaching is required. In all cases, at least two-thirds of this time must be devoted to actual teaching in the field

This work should give an insight into children — how they develop and how they learn. It should bring the students in contact with many children in different learning situations. It is suggested that this area be treated as a whole, rather than be broken down into segmented courses.

Principles, Philosophy, and General Techniques: This area would include the material usually offered in such courses as philosophy of education, principles of education, educational sociology, principles of curriculum construction, techniques and materials of teaching, psychology of school subjects, educational measurements, etc....

Directed Teaching: This work should be closely integrated with other phases of professional study, especially work on techniques and materials. These directed teaching is done on a period basis and is closely checked by the supervisor of directed teaching. a minimum of 90 clock hours of observation and teaching is required. Where the directed teaching is done over a full day, week, or more, a minimum of six weeks of full-time observation and teaching is required. In all cases, at least two-thirds of this time must be devoted to actual teaching in the field

of physical education.

III.	Health and Physical Education	24 semester hours
	A. History, Principles, Philosophy, Organization, and Administration	4-6
	B. Health Education -- First Aid and Safety, including Personal and Community Health	3-4
	C. Materials and Applied Techniques	14-17
	D. Basic Sciences	10-14
	1. Physiology and Anatomy	4-6
	2. Chemistry and/or Physics	6-8

NOTE: The requirement in chemistry or physics may have been met in the general requirement.

Units to be included in Materials and Applied Techniques:

Games of Low Organization, Individual and Dual Sports (Minor Sports), Team Sports (Major Sports), Rhythmical Activities, Gymnastics, Stunts, and Conditioning Activities, Aquatics, Body Mechanics, Community Recreation Leadership.

The content to be included in each of the areas is as follows:

Health Education:

This work should cover the theory of the field of Health Education, including the teaching materials to be used presenting problems relating to the healthful environment, the sources of materials and their uses,

of physical education.

III. Health and Physical Education	24 semester hours
A. History, Principles, Philosophy, Organization, and Administration	4-6
B. Health Education -- First Aid and Safety, Including Personal and Community Health	3-4
C. Materials and Applied Techniques	14-17
D. Basic Sciences	10-14
1. Physiology and Anatomy	4-6
2. Chemistry and/or Physics	6-8

NOTE: The requirement in chemistry or physics may have been met in the general requirement.

Units to be included in Materials and Applied Techniques: Games of Low Organization, Individual and Dual Sports (Minor Sports), Team Sports (Major Sports), Rhythmical Activities, Gymnastics, Stunts, and Conditioning Activities, Aquatics, Body Mechanics, Community Recreation Leadership.

The content to be included in each of the areas is as follows:

Health Education:

This work should cover the theory of the field of health Education, including the teaching materials to be used presenting problems relating to the healthful environment, the sources of materials and their uses,

the principles and practice of First Aid and Safety as they may be used in the school program.

Principles, History, Philosophy, Organization and Administration of Health and Physical Education: This area would include the historical backgrounds of the Health and Physical Education program as a basis for the understanding of the present program, the underlying principles, aims and objectives, the problems relating to the setting up and conducting of the program, including curriculum building, planning, and use of facilities.

Materials and Applied Techniques:

This area involves an understanding and mastery of the techniques of the various activities and their presentation and adaptation to the various age levels and groups:

1. Plays and Games and Story Plays
2. Rhythmical Activities, including Creative Rhythms
3. Individual and Dual Sports
4. Team Sports
5. Correctives
6. Marching, Gymnastics, Stunts and Tumbling, and other Self-Testing Activities (including Conditioning Activities).
7. Intramural and Interscholastic Sports

the principles and practice of First Aid and Safety as they may be used in the school program.

Principles, History, Philosophy, Organization and Administration of Health and Physical Education. This area would include the historical backgrounds of the Health and Physical Education program as a basis for the understanding of the present program, the underlying principles, aims and objectives, the problems relating to the setting up and conducting of the program, including curriculum building, planning, and use of facilities.

Materials and Applied Techniques:

This area involves an understanding and mastery of the techniques of the various activities and their presentation and adaptation to the various age levels and groups:

1. Plays and Games and Story Plays
2. Rhythmical Activities, including Creative Rhythms
3. Individual and Dual Sports
4. Team Sports
5. Corrective
6. Marching, Gymnastics, Stunts and Tumbling, and other Self-Testing Activities (including Conditioning Activities).
7. Intramural and Interscholastic Sports

8. Community Recreation

NOTE: For women, emphasis will be placed on 1, 2, 3, and 4: for men, upon 7 and conditioning exercises.

SOUTH DAKOTA

Bachelor's degree in physical education from a recognized institution. The training must include fifteen semester hours of credit in education including three semester hours practice teaching in physical education.

TENNESSEE

I. Graduate of a college or university approved by the State Commissioner and State Board of Education.

II. Education: The professional requirements for high school teachers are:

A. Educational Psychology, 3 quarter hours

B. Principles of Secondary Education, 3 quarter hours

C. Materials and methods in high school subjects, 6 quarter hours

and

D. Directed or practice teaching, 3 quarter hours

or

E. Materials and methods, 9 quarter hours.

Total, 15 quarter hours

The remaining 12 quarter hours are elective and will be selected from courses in the field of secondary education. The electives to be selected from the following list:

B. Community Recreation

NOTE: For women, emphasis will be placed on 1, 2, 3, and 4; for men, upon 7 and conditioning exercises.

SOUTH DAKOTA

Bachelor's degree in physical education from a recognized institution. The training must include fifteen semester hours or credits in education including three semester hours practice teaching in physical education.

TENNESSEE

I. Graduate of a college or university approved by the State Commissioner and State Board of Education.

II. Education: The professional requirements for high school teachers are:

A. Educational Psychology, 3 quarter hours

B. Principles of Secondary Education, 3 quarter hours

C. Materials and methods in high school subjects, 6 quarter hours

and

D. Directed or practice teaching, 3 quarter hours

or

E. Materials and methods, 9 quarter hours.

Total, 15 quarter hours

The remaining 12 quarter hours are elective and will be selected from courses in the field of secondary education. The electives to be selected from the following list:

(A maximum of 3 quarter hours in each course.)

1. History of Education or History of Education in the United States
2. Adolescent Psychology
3. Educational Tests and Measurements
4. High School Administration, Organization, and Management
5. Educational Sociology
6. General Psychology
7. Curriculum of the High School
8. Philosophy of Education

III. Completion of 21 quarter hours in Health and Physical Education to be distributed as follows:

A. Physical Education courses selected from the following, 9 quarter hours. The first activity listed below is required.

1. Conditioning exercises, 2 quarter hours
2. Stunts and tumbling, 2 quarter hours
3. Boxing, wrestling, and/or combat activities, 2 quarter hours
4. Folk Rhythms, 2 quarter hours
5. Tap rhythms, 2 quarter hours
6. Adult sports, 2 quarter hours
7. Group games or athletic coaching, 3 quarter hours

(A maximum of 3 quarter hours in each course.)

1. History of Education or History of Education in the United States
2. Adolescent Psychology
3. Educational Tests and Measurements
4. High School Administration, Organization, and Management
5. Educational Sociology
6. General Psychology
7. Curriculum of the High School
8. Philosophy of Education

III. Completion of 21 quarter hours in Health and Physical Education to be distributed as follows:

A. Physical Education courses selected from the following, 9 quarter hours. The first activity listed below is required.

1. Conditioning exercises, 2 quarter hours
2. Stunts and tumbling, 2 quarter hours
3. Boxing, wrestling, and/or combat activities, 2 quarter hours
4. Folk rhythms, 2 quarter hours
5. Tap rhythms, 2 quarter hours
6. Adult sports, 2 quarter hours
7. Group games or athletic coaching, 3 quarter hours

B. Health Education -- choice of any three, 9 quarter hours

1. Health examination and followup, 3 quarter hours
2. Health instruction content, 3 quarter hours
3. Nutrition, 3 quarter hours
4. Safety education and first aid, 3 quarter hours

C. Health and Physical Education:

(Education) Choice of one, 3 quarter hours

1. Administration problems in health and physical education
2. Principles and Philosophy of health and physical education
3. Program planning in health and physical education

TEXAS

Completion of ten college courses, at least one of which shall be in English, at least one of which shall be in education, and at least one of which shall be in methods of teaching physical education.

NOTE: A course within the meaning of the Texas certificate law is equivalent to 6 semester or 9 term hours.

UTAH

Requirements for certification of teachers in physical education are as

B. Health Education -- choice of any three, 9 quarter hours

1. Health examination and follows, 3 quarter hours

2. Health instruction content, 3 quarter hours

3. Nutrition, 3 quarter hours

4. Safety education and first aid, 3 quarter hours

C. Health and Physical Education:

(Education) Choice of one, 3 quarter hours

1. Administration problems in health and physical education

2. Principles and Philosophy of health and physical education

3. Program planning in health and physical education

TEXAS

Completion of ten college courses, at least one of which shall be in English, at least one of which shall be in education, and at least one of which shall be in methods of teaching physical education.

NOTE: A course within the meaning of the Texas certificate law is equivalent to 6 semester or 9 term hours.

UTAH

Requirements for certification of teachers in physical education are as

follows:

I. A teaching major, a minimum of 30 quarter hours of work in physical education.

II. A minor of 18 quarter hours in a subject which is allied to physical education.

III. 33 quarter hours of professional education.

IV. A Bachelor's Degree.

The certification requirements are undergoing revision at the present time.

VERMONT

I. Graduation from an approved four year secondary school

II. Baccalaureate degree from an institution of higher learning which is approved by the state department of education. This course shall include at least 12 semester hours of professional education. Three of the 12 semester hours must be in Observation and Practice Teaching in Physical Education in the public schools. Not more than 6 of the 12 credits may be in Psychology and only 3 of the 6 credits in General Psychology.

III. It is suggested that the teacher offer courses in Philosophy of Education or Principles of Teaching, Educational Psychology, Methods of Teaching in Physical Education, and Observation and Practice Teaching.

IV. Certificates for full-time teachers who have specialized in

Boston University
School of Education
Library

Health and Physical Education will be issued to those whose preparation is comparable to the minimum requirements.

VIRGINIA

The Collegiate Professional certificate is issued to the holder of a baccalaureate degree conferred by a standard university, teachers college, arts college, or technical college, who has completed at least nine college session hours' work in teacher-training courses, distributed as follows:

I. Required courses in professional subjects

A.	Supervised Student Teaching	3 session hours
B.	School and Community Hygiene, including physical inspection of school children	1 " "
C.	Electives in professional subjects	5 " "
	Total professional credits	9 " "

II. Professional courses from which electives may be chosen:

A. Curriculum of Elementary School

B. Curriculum of High School

C. Educational Psychology

D. Educational Sociology

E. Elementary School Organization, Supervision, and Administration

F. Evaluation

G. Guidance

Health and Physical Education will be issued to those whose preparation is comparable to the minimum requirements.

VIRGINIA

The Collegiate Professional certificate is issued to the holder of a baccalaureate degree conferred by a standard university, teachers college, arts college, or technical college, who has completed at least nine college session hours' work in teacher-training courses, distributed as follows:

I. Required courses in professional subjects

A. Supervised Student Teaching	3	session hours
B. School and Community Hygiene, including physical inspection of school children	1	" "
C. Electives in professional subjects	5	" "
Total professional credits	9	" "

II. Professional courses from which electives may be chosen:

A. Curriculum of Elementary School

B. Curriculum of High School

C. Educational Psychology

D. Educational Sociology

E. Elementary School Organization, Supervision, and Administration

F. Evaluation

G. Guidance

H. High School Organization, Supervision, and Administration

I. History of Education

J. Philosophy of Education

K. Problems in Secondary Education

III. Physical Education

The holder of a Collegiate Professional or Collegiate certificate may be certificated in physical and health education on presentation of a minimum of six college session hours' credit in the field of physical and health education.

IV. Teachers who are employed as full-time directors of physical and health education are expected to have a minimum of twelve college session hours' credit in the field of physical and health education.

WASHINGTON

Special certificates for physical education are not issued in this state. Teachers who wish to teach physical education are required to meet requirements for a regular certificate which are completion in a fully accredited college or university of a five year course designed for the training of secondary teachers and including at least 45 quarter (thirty semester) hours in addition to the number of hours regularly required by the institution for a bachelor's degree.

In this five year course every applicant must have included at least fifteen quarter hours in contemporary social problems. Courses in current history, political science, economics, and sociology will

H. High School Organization, Supervision, and Administration

I. History of Education

J. Philosophy of Education

K. Problems in Secondary Education

III. Physical Education

The holder of a Collegiate Professional or Collegiate certificate may be certificated in physical and health education on presentation of a minimum of six college session hours' credit in the field of physical and health education.

IV. Teachers who are employed as full-time directors of physical and health education are expected to have a minimum of twelve college session hours' credit in the field of physical and health education.

WASHINGTON

Special certificates for physical education are not issued in this state. Teachers who wish to teach physical education are required to meet requirements for a regular certificate which are completion in a fully accredited college or university of a five year course designed for the training of secondary teachers and including at least 45 quarter (thirty semester) hours in addition to the number of hours regularly required by the institution for a bachelor's degree.

In this five year course every applicant must have included at least fifteen quarter hours in contemporary social problems. Courses in current history, political science, economics, and sociology will

satisfy this requirement. Courses in modern history, education, English, etc., are not acceptable unless a description of the courses shows clearly that the field covered is contemporary history or contemporary social problems.

Besides a broad and general background, applicants must have completed one teaching major of 36 quarter hours and two teaching minors of at least 18 quarter hours each. A major or a minor must consist of subjects in a specific and homogeneous field.

Applicants must include in their college or university course at least 24 quarter hours in education. Not less than three (except in special methods, in which case two quarter hours will be acceptable) nor more than six quarter hours are accepted in each of the following courses toward satisfying the required 24 quarter hours:

a. Educational psychology (general psychology may not be substituted for educational psychology)

b. General methods, or principles of teaching

c. Secondary education

d. Special methods

e. Additional elective hours in education to complete a total of 24 quarter hours

Applicants will be required to file satisfactory evidence of having completed four quarter hours of directed teaching, or eight months of successful teaching experience, provided that not more than nine quarter hours in directed teaching be included in the total 24 quarter hours.

satisfy this requirement. Courses in modern history, education, English, etc., are not acceptable unless a description of the courses shows clearly that the field covered is contemporary history or contemporary social problems.

Besides a broad and general background, applicants must have completed one teaching major of 36 quarter hours and two teaching minors of at least 18 quarter hours each. A major or a minor must consist of subjects in a specific and homogeneous field.

Applicants must include in their college or university course at least 24 quarter hours in education. Not less than three (except in special methods, in which case two quarter hours will be acceptable) nor more than six quarter hours are accepted in each of the following courses toward satisfying the required 24 quarter hours:

a. Educational psychology (general psychology may not be substituted for educational psychology)

b. General methods, or principles of teaching

c. Secondary education

d. Special methods

e. Additional elective hours in education to complete a total of 24 quarter hours

Applicants will be required to file satisfactory evidence of having completed four quarter hours of directed teaching, or eight weeks of successful teaching experience, provided that not more than nine quarter hours in directed teaching be included in the total 24 quarter hours.

In addition, an applicant must complete the courses in Washington State Manual and Washington State History and Government.

WEST VIRGINIA

1. Graduation and recommendation from a standard college

II. General requirements (minimum 28 semester hours)

A. English, 8 semester hours: Speech, 2 semester hours

B. Social Studies, 12 semester hours

History, Government, Sociology, Economics, and Geography. At least one course in each of the three subjects or fields must be completed.

C. Science or Mathematics, 6 semester hours

Combination of Science and Mathematics not acceptable

III. Professional requirements (minimum 20 semester hours)

A. Educational Psychology, 5 semester hours

B. Teaching in Secondary Schools including Principles, Methods, and Management, 4 semester hours

C. Directed Teaching (90 clock hours), 4 semester hours

D. Suggested Electives:

1. Organization and Program of Study of West Virginia School System

2. Tests and Measurements

3. Philosophy of Education

4. Educational Sociology

In addition, an applicant must complete the courses in Washington State Manual and Washington State History and Government.

WEST VIRGINIA

I. Graduation and recommendation from a standard college

II. General requirements (minimum 24 semester hours)

A. English, 9 semester hours; Speech, 2 semester hours

B. Social Studies, 12 semester hours

History, Government, Sociology, Economics, and Geography. At least one course in each of the three subjects or fields must be completed.

C. Sciences or Mathematics, 6 semester hours

Combination of Science and Mathematics not acceptable

III. Professional requirements (minimum 20 semester hours)

A. Educational Psychology, 5 semester hours

B. Teaching in Secondary Schools including Principles, Methods, and Management, 4 semester hours

C. Directed Teaching (90 clock hours), 4 semester hours

D. Suggested Electives:

1. Organization and Program of Study of West Virginia School System

2. Tests and Measurements

3. Philosophy of Education

4. Educational Sociology

5. High School Program of Studies

6. History of Education

7. High School Organization

8. Current Practices in Secondary Education

9. Co-Curricular Activities

10. Pupil Personnel and Pupil Accounting

11. The Junior High School

12. Adult Education

13. Introduction to Vocational Teaching

IV. Physical Education, 24 semester hours

A. Required Courses:

1. Anatomy, Physiology, and Kinesiology, 4 semester hours

2. Health Education and Hygiene, 4 semester hours

3. Principles, Organization, and Administration of Health and Physical Education, 2 semester hours

4. Theory and Practice of Physical Education, 13 semester hours distributed as follows:

a. Team Sports, men - 5, women - 3

Baseball, football, basketball, track and field events, volley ball, speed ball, touch ball, football, field ball, field hockey and officiating.

5. Recreational Activities, men - 3 semester hours:

5. High School Program of Studies

6. History of Education

7. High School Organization

8. Current Practices in Secondary Education

9. Co-Curricular Activities

10. Pupil Personnel and Pupil Accounting

11. The Junior High School

12. Adult Education

13. Introduction to Vocational Teaching

IV. Physical Education, 24 semester hours

A. Required Courses:

1. Anatomy, Physiology, and Kinesiology, 4 semester hours

2. Health Education and Hygiene, 4 semester hours

3. Principles, Organization, and Administration of Health and Physical Education, 2 semester hours

4. Theory and Practice of Physical Education, 12 semester hours distributed as follows:

a. Team Sports, men - 5, women - 3

Baseball, football, basketball, track and field events, volley ball, speed ball, touch ball, football, field ball, field hockey and officiating.

5. Recreational Activities, men - 3 semester hours:

women - 3 semester hours

a. Swimming, archery, golf, tennis, badminton, table tennis, handball, boxing, wrestling, gymnastics, and apparatus.

6. School and Community Activities, men - 4 semester hours and women - 4 semester hours

a. Games, first aid, camping and hiking, scout-mastership, and club leadership.

7. Rhythms, men - 1 semester hour and women - 3 semester hours

a. Folk, natural, social, clog, and tap dancing, marching, and calisthenics.

No credit in Physical Education shall be allowed for participation in inter-collegiate sports.

WISCONSIN

I. Graduation from an accredited four year college or university

II. A major of at least 30 semester hours in physical education

III. Professional education consisting of 18 semester hours.

WYOMING

Graduation from a standard college or university, with 24 quarter hours in professional education and 22½ quarter hours in physical education or in other major teaching areas.

women - 3 semester hours

a. Swimming, archery, golf, tennis, badminton, table tennis, handball, boxing, wrestling, gymnastics, and apparatus.

5. School and community activities. men - 4 semester hours and women - 4 semester hours

a. Camps, first aid, camping and hiking, scout-mastership, and club leadership.

7. Hygiene, men - 1 semester hour and women - 3 semester hours

a. Folk, natural, social, clog, and tap dancing, marching, and calisthenics.

No credit in physical education shall be allowed for participation in inter-collegiate sports.

MINOR

I. Graduation from an accredited four year college or university

II. A major of at least 30 semester hours in physical education

III. Professional education consisting of 18 semester hours.

MAJOR

Graduation from a standard college or university, with 24 quarter hours in professional education and 22½ quarter hours in physical education or in other major teaching areas.

CHAPTER IV

DISCUSSION

Of the forty-eight states in the United States, as indicated in Table I, only two, Oregon and Washington, require a master's degree for teacher certification in physical education. Thirty-eight states - Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming require a bachelor's degree. Four states - Colorado, Georgia, Idaho, and New Mexico require neither a master's degree nor a bachelor's degree but from forty-nine semester hours to sixty-nine semester hours of collegiate training.

Massachusetts, alone, of all the states, has no certification law. Its only requirements being those set up by regulation of the State Department of Education. The great majority of teachers of Massachusetts are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

Table I shows that physical education courses are necessary in twenty-seven states of the United States and that there is a great range in the requirements from the six semester hours essential in Virginia

CHAPTER IV

DISCUSSION

Of the forty-eight states in the United States, as indicated in Table I, only two, Oregon and Washington, require a master's degree for teacher certification in physical education. Thirty-eight states - Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming require a bachelor's degree. Four states - Colorado, Georgia, Idaho, and New Mexico require neither a master's degree nor a bachelor's degree but from forty-nine semester hours to sixty-nine semester hours of collegiate training.

Massachusetts, alone, of all the states, has no certification law. Its only requirements being those set up by regulation of the State Department of Education. The great majority of teachers of Massachusetts are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

Table I shows that physical education courses are necessary in twenty-seven states of the United States and that there is a great range in the requirements from the six semester hours essential in Virginia

TABLE I REQUIREMENTS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES

	Master of Education	Bachelor's Degree	Physical Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health and Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S.Constitution	Rank in upper four-fifths of class	Grade of at least "C" in Practice Teaching	Minimum in all subjects	State History and Government	Collegiate Training	No Certification Law
Alabama		✓	12					15							18								
Arizona		✓	30	13	5																		
Arkansas		✓	24			16																	
California		✓				15		31	24														
Colorado			30					10														60	
Connecticut		✓																					
Delaware		✓	60			6																	
Florida		✓	21			18		18									✓						
Georgia			12			9																69	
Idaho			15					34														49	
Illinois		✓	35			16		33															
Indiana		✓				18		30	40														
Iowa		✓	20			15																	
Kansas		✓	65	18				40															
Kentucky		✓	40			18		30															
Louisiana		✓				18			41														

All figures are in terms of semester hours unless otherwise indicated

women - 3 semester hours

a. Swimming, archery, golf, tennis, badminton, table tennis, baseball, boxing, wrestling, gymnastics, and aquaretics.

6. School and Community Activities, men - 4 semester hours and women - 4 semester hours

a. Camps, first aid, camping and hiking, scout-leadership, and club leadership.

7. Rhythms, men - 1 semester hour and women - 3 semester hours

a. Folk, natural, social, clog, and tap dancing, aerobics, and calisthenics.

No credit in Physical Education shall be allowed for participation in inter-collegiate sports.

WISCONSIN

I. Graduation from an accredited four year college or university

II. A major of at least 20 semester hours in physical education

III. Professional education consisting of 18 semester hours.

WYOMING

Graduation from a standard college or university, with 32 quarter hours in professional education and 22½ quarter hours in physical education or in other major teaching areas.

CHAPTER IV

DISCUSSION

Of the forty-eight states in the United States, as indicated in Table I, only two, Oregon and Washington, require a master's degree for teacher certification in physical education. Thirty-eight states - Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming require a bachelor's degree. Four states - Colorado, Georgia, Idaho, and New Mexico require neither a master's degree nor a bachelor's degree but from forty-nine semester hours to sixty-nine semester hours of collegiate training.

Massachusetts, alone, of all the states, has no certification law. Its only requirements being those set up by regulation of the State Department of Education. The great majority of teachers of Massachusetts are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

Table I shows that physical education courses are necessary in twenty-seven states of the United States and that there is a great range in the requirements from the six semester hours essential in Virginia

CHAPTER IV

DISCUSSION

Of the forty-eight states in the United States, as indicated in Table I, only two, Oregon and Washington, require a master's degree for teacher certification in physical education. Thirty-eight states - Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming require a bachelor's degree. Four states - Colorado, Georgia, Idaho, and New Mexico require neither a master's degree nor a bachelor's degree but from forty-nine semester hours to sixty-nine semester hours of collegiate training.

Massachusetts, alone, of all the states, has no certification law. Its only requirements being those set up by regulation of the State Department of Education. The great majority of teachers of Massachusetts are employed in the larger communities where teacher training requirements are a matter of discretion in the hands of the local school authorities.

Table I shows that physical education courses are necessary in twenty-seven states of the United States and that there is a great range in the requirements from the six semester hours essential in Virginia

TABLE I

REQUIREMENTS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES

	Master of Education	Bachelor's Degree	Physical Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health and Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S.Constitution	Rank in upper four-fifths of class	Grade of at least "C" in Practice Teaching	Minimum in all subjects	State History and Government	Collegiate Training	No Certification Law
Alabama		✓	12					15							18								
Arizona		✓	30	13	5																		
Arkansas		✓	24			16																	
California		✓				15		31	24														
Colorado			30					10														60	
Connecticut		✓																					
Delaware		✓	60			6																	
Florida		✓	21			18		18									✓						
Georgia			12			9																69	
Idaho			15					34														49	
Illinois		✓	35			16		33															
Indiana		✓				18		30	40														
Iowa		✓	20			15																	
Kansas		✓	65	18				40															
Kentucky		✓	40			18		30															
Louisiana		✓				18			41														

All figures are in terms of semester hours unless otherwise indicated

TABLE I

STATE TEACHER-TYPES AND THE EDUCATIONAL ENVIRONMENT

	Master's Degree	Bachelor's Degree	Private Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health and Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S. Constitution	Rank in upper 10% of class	Grade of "C" or better in Practice Teaching	Life of minimum subjects	Has State History Government	Collegiate Training
Alabama	✓	✓	15				12	52							18							
Arizona	✓	✓	30	13	2																	
Arkansas	✓	✓	24			16																
California	✓	✓				12		31	24													
Colorado			30					10														60
Connecticut	✓	✓																				
Delaware		✓	60			9																
Florida	✓	✓	57			18		18									✓					
Georgia			15			4																
Idaho			15					32														
Illinois	✓	✓	32			16		18														47
Indiana	✓	✓							40													
Iowa	✓	✓	30			15																
Kansas	✓	✓	65	18			40															
Kentucky	✓	✓	40			18		30														49
Louisiana	✓	✓																				

Master of Education

Bachelor's Degree

Private Education

Education & Psychology

Practice Teaching

Professional Education

Secondary Education

Education

Health and Physical Education

Science

Social Studies

English

History

Agriculture

Academic Major

Academic Minor

U.S. Constitution

Rank in upper 10% of class

Grade of "C" or better in Practice Teaching

Life of minimum subjects

State History Government

Collegiate Training

Detailed estimates based upon data in the BULLETIN OF THE NATIONAL ASSOCIATION OF SECONDARY SCHOOL PRINCIPALS

All rights are reserved to author.

TABLE I REQUIREMENTS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES

	Master of Education	Bachelor's Degree	Physical Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health & Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S. Constitution	Rank in upper four-fifths of class	Grade of at least "C" in Practice Teaching	Minimum in all subjects	State History and Government	Collegiate Training	No Certification Law
Maine		✓																					
Maryland		✓	30					16										✓	✓				
Massachusetts																							✓
Michigan		✓				20			24							2 minors							
Minnesota		✓	major					15															
Mississippi			20																				
Missouri		✓				18			24														
Montana		✓						16	30							20							
Nebraska		✓	15					18															
Nevada		✓			4	18																	
New Hampshire		✓	24					12															
New Jersey		✓	48		5	18				10	10	10											
New Mexico									20													60	
New York		✓							36														
North Carolina		✓				18			30														
North Dakota		✓	minor					16															

All figures are in terms of semester hours unless otherwise indicated

TABLE I

RESULTS FOR GENERAL CERTIFICATION IN SUBJECT FOUNDATION IN THE PUBLIC-SCHOOLS

	Master in Education	Bachelor's Degree	Professional Education	Practice Teaching	Education & Psychology	Professional Education	Secondary Education	Education	Health & Physical Education	Science	Social Studies	English	Hygiene	Agriculture	Academic Major	Academic Minor	U.S. Constitution	Rank in upper fourth of class	Grade of at least "C" in Practice Teaching	Minimum of 12 units	Sports History and Government	Collegiate Training	
State																							No
Maine																							
Maryland		✓	✓						12									2					
Massachusetts																							
Michigan		✓	✓			30																	
Minnesota		✓	✓						12														
Mississippi																							
Missouri		✓	✓			18			12														
Montana		✓	✓					18	30							30							
Nebraska		✓	✓					18															
Nevada		✓	✓		4	18																	
New Hampshire		✓	✓																				
New Jersey		✓	✓		5	18				10	10	10											
New Mexico																						60	
New York		✓	✓																				
North Carolina		✓	✓																				
North Dakota																							
Ohio		✓	✓																				
Oklahoma		✓	✓																				
Oregon		✓	✓																				
Pennsylvania		✓	✓																				
Rhode Island		✓	✓																				
South Carolina		✓	✓																				
South Dakota		✓	✓																				
Tennessee		✓	✓																				
Texas		✓	✓																				
Utah		✓	✓																				
Vermont		✓	✓																				
Virginia		✓	✓																				
Washington		✓	✓																				
West Virginia		✓	✓																				
Wisconsin		✓	✓																				
Wyoming		✓	✓																				

All figures are in terms of semester hours unless otherwise indicated

TABLE I REQUIREMENTS FOR TEACHER CERTIFICATION IN PHYSICAL EDUCATION IN THE FORTY-EIGHT STATES

	Master of Education	Bachelor's Degree	Physical Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health & Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S. Constitution	Rank in upper four-fifths of class	Grade of at least "C" in Practice Teaching	Minimum in all subjects	State History and Government	Collegiate Training	No Certification Law
Ohio		✓	40			28																	
Oklahoma		✓	16					15					8	2						90%			
Oregon	✓		24		4			26 2/3					2 2/3										
Pennsylvania		✓																					
Rhode Island		✓				6 1/6																	
South Carolina						18		48	24														
South Dakota		✓			3			12															
Tennessee		✓				10	8		14														
Texas								60															
Utah		✓	12			22									20								
Vermont		✓				12																	
Virginia		✓	6			9																	
Washington	✓							16							24	24					✓		
West Virginia		✓	24			20		28															
Wisconsin		✓	30			18																	
Wyoming		✓	15			16																	

All figures are in terms of semester hours unless otherwise indicated

TABLE I

REQUIREMENTS FOR TEACHER CERTIFICATES IN NORTHCENTRAL FACTORY STATES

	Master in Education	Bachelor's Degree	Primary Education	Education & Psychology	Practice Teaching	Professional Education	Secondary Education	Education	Health & Physical Education	Science	Social Studies	English	History	Agriculture	Academic Major	Academic Minor	U.S. Constitution	Rank in upper fourth of class	Grade in at least	Minimum Practice Teaching	Life of minimum credits	State History and Government	Collegiate Training
Ohio			4A			8S																	
Oklahoma		✓	1P					1P												90%			
Oregon	✓		1S		4			2S/1P					8	S									
Pennsylvania		✓																					
Rhode Island		✓				1/2			4S														
South Carolina						1S																	
South Dakota		✓			3			1S															
Tennessee		✓				1S	8																
Texas		✓						2S															
Utah		✓	1S			2S																	
Vermont		✓		6																			
Virginia		✓			1S																		
Washington	✓																					✓	
West Virginia		✓	3P			2S		2S							2P								
Wisconsin		✓	3P																				
Wyoming		✓																					

All figures are in terms of semester hours unless otherwise indicated

to the sixty-five semester hours needed for Kansas. For physical education courses Alabama, in terms of semester hours, requires twelve, Arizona thirty, Arkansas twenty-four, Colorado thirty, Delaware sixty, Florida twenty-one, Georgia twelve, Idaho fifteen, Illinois thirty-five, Iowa twenty, Kentucky forty, Maryland thirty, Mississippi twenty, Nebraska fifteen, New Hampshire twenty-four, New Jersey forty-eight, Ohio forty, Oklahoma sixteen, Oregon twenty-four, Utah twelve, West Virginia twenty-four, Wisconsin thirty, and Wyoming fifteen. The state of North Dakota requires a minor in physical education and the state of Minnesota, a major in physical education.

In professional education requirements the range is not so great. The lowest is six semester hours and the highest is twenty-eight semester hours for required courses in this field. In semester hours Arkansas, Illinois and Wyoming each call for sixteen; California and Iowa, fifteen each, Delaware, six; Florida, Indiana, Kentucky, Louisiana, Missouri, Nevada, New Jersey, the Carolinas and Wisconsin, eighteen each; Georgia and Virginia, nine each; Michigan and West Virginia, twenty each; Ohio, twenty-eight; Rhode Island six and one-sixth; Tennessee ten; Utah twenty-two; and Vermont twelve.

Eight semester hours in secondary education is essential in Tennessee. Arizona requires thirteen semester hours of an education and psychology combination while Kansas wants eighteen. In practice teaching in physical education Arizona calls for five semester hours, Nevada four semester hours, New Jersey five semester hours, Oregon four semester hours, and South Dakota three semester hours.

to the sixty-five semester hours required for Kansas. For physical education courses Alabama, in terms of semester hours, requires twelve, Arkansas thirty, Kansas forty-four, Colorado eighty, Delaware sixty, Florida twenty-one, Georgia twelve, Idaho fifteen, Illinois thirty-five, Iowa twenty, Kentucky forty, Maryland thirty, Mississippi twenty, Nebraska fifteen, New Hampshire twenty-four, New Jersey forty-eight, Ohio forty, Oklahoma sixteen, Oregon twenty-four, Utah twelve, West Virginia twenty-four, Wisconsin thirty, and Wyoming fifteen. The state of North Dakota requires a minor in physical education and the state of Minnesota, a major in physical education.

In professional education requirements the range is not so great. The lowest is six semester hours and the highest is twenty-eight semester hours for required courses in this field. In semester hours Arkansas, Illinois and Wyoming each call for sixteen; California and Iowa, fifteen each, Delaware, six; Florida, Indiana, Kentucky, Louisiana, Maryland, Nevada, New Jersey, the Carolinas and Tennessee, eighteen each; Georgia and Virginia, nine each; Michigan and West Virginia, twenty each; Ohio, twenty-eight; Rhode Island six and one-sixth; Tennessee ten; Utah twenty-two; and Vermont twelve.

Eight semester hours in secondary education is essential in Tennessee. Arizona requires thirteen semester hours of an education and psychology combination while Kansas sets eighteen. In practice teaching in physical education Arizona calls for five semester hours, Nevada four semester hours, New Jersey five semester hours, Oregon four semester hours, and South Dakota three semester hours.

In the health and physical education combination California, Michigan, Missouri and South Carolina each want twenty-four semester hours; Indiana forty; Louisiana forty-one; Montana and North Carolina thirty each; New Mexico twenty; New York thirty-six; and Tennessee fourteen.

Table I also shows that there is a fairly wide range in the semester hours required in education in the various states. Alabama, Minnesota, and Oklahoma call for fifteen each; Maryland, Montana, North Dakota, and Washington sixteen each; California thirty-one; Colorado ten; Florida and Nebraska eighteen each; Idaho thirty-four; Illinois thirty-three; Indiana and Kentucky thirty each; Kansas forty; New Hampshire and South Dakota twelve each; Oregon twenty-six and two-thirds; South Carolina forty-eight; Texas sixty; and West Virginia twenty-eight. The lowest requirement is that of California and the highest that of South Carolina.

For state certification in physical education the state of Florida requires a knowledge of the United States Constitution. Michigan requires two academic minors while in Montana it is necessary to have twenty semester hours in an academic minor and Washington asks for twenty-four semester hours in an academic minor.

As a prerequisite for teacher certification in physical education the state of Alabama wants eighteen semester hours in an academic major while Utah wants twenty semester hours, and Washington twenty-four semester hours for the same purpose.

Courses in state history are needed in only three of the forty-eight states. These three states are Oklahoma, Oregon, and Washington.

In the health and physical education combination California, Michigan, Missouri and South Carolina each want twenty-four semester hours; Indiana forty; Louisiana forty-one; Montana and North Carolina thirty each; New Mexico twenty; New York thirty-six; and Tennessee fourteen.

Table I also shows that there is a fairly wide range in the semester hours required in education in the various states. Alabama, Minnesota, and Oklahoma call for fifteen each; Maryland, Montana, North Dakota, and Washington sixteen each; California thirty-one; Colorado ten; Florida and Nebraska eighteen each; Idaho thirty-four; Illinois thirty-three; Indiana and Kentucky thirty each; Kansas forty; New Hampshire and South Dakota twelve each; Oregon twenty-six and two-thirds; South Carolina forty-eight; Texas sixty; and West Virginia twenty-eight. The lowest requirement is that of California and the highest that of South Carolina.

For state certification in physical education the state of Florida requires a knowledge of the United States Constitution. Michigan requires two academic minors while in Montana it is necessary to have twenty semester hours in an academic minor and Washington asks for twenty-four semester hours in an academic minor.

As a prerequisite for teacher certification in physical education the state of Alabama wants eighteen semester hours in an academic major while Utah wants twenty semester hours, and Washington twenty-four semester hours for the same purpose.

Courses in state history are needed in only three of the forty-eight states. These three states are Oklahoma, Oregon, and Washington.

New Jersey requires ten semester hours of science, ten semester hours of social studies, and ten semester hours of English. Oklahoma is the only state calling for a course in agriculture as a prerequisite for teacher certification in physical education. Oklahoma, also, is the only state requiring a minimum of ninety per cent in all college subjects while Maryland accepts only those who rank in the upper four-fifths of the class.

CHAPTER V

CONCLUSIONS

There is very little agreement among state laws as to the certification for teachers of physical education as this study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, clearly shows except that they be mentally and physically fit. This lack of agreement among the states is found in the amount of education required and in the kind of education required. Some examples of this are indicated as follows -

I. State Education Requirements

A. Master's degree

1. Oregon
2. Washington

B. Bachelor's degree

1. Alabama
2. Arizona
3. Arkansas
4. California
5. Connecticut
6. Delaware
7. Florida
8. Illinois
9. Indiana
10. Iowa
11. Kansas
12. Kentucky
13. Louisiana
14. Maine
15. Maryland
16. Michigan

CHAPTER V

CONCLUSIONS

There is very little agreement among state laws as to the certification for teachers of physical education as this study, Prerequisites for Teacher Certification in Physical Education in the Forty-eight States, clearly shows except that they be mentally and physically fit. This lack of agreement among the states is found in the amount of education required and in the kind of education required. Some examples of this are indicated as follows -

I. State Education Requirements

A. Master's degree

1. Oregon
2. Washington

B. Bachelor's degree

1. Alabama
2. Arizona
3. Arkansas
4. California
5. Connecticut
6. Delaware
7. Florida
8. Illinois
9. Indiana
10. Iowa
11. Kansas
12. Kentucky
13. Louisiana
14. Maine
15. Maryland
16. Michigan

17. Minnesota
18. Missouri
19. Montana
20. Nebraska
21. Nevada
22. New Hampshire
23. New Jersey
24. New York
25. North Carolina
26. North Dakota
27. Ohio
28. Oklahoma
29. Pennsylvania
30. Rhode Island
31. South Dakota
32. Tennessee
33. Utah
34. Vermont
35. Virginia
36. West Virginia
37. Wisconsin
38. Wyoming

C. Collegiate training

1. Idaho	49	semester hours
2. Colorado	60	" "
3. New Mexico	60	" "
4. Georgia	69	" "

D. No certification law

1. Massachusetts

E. Physical education

1. Virginia	6	semester hours
2. Alabama	12	" "
3. Georgia	12	" "
4. Utah	12	" "
5. Idaho	15	" "
6. Nebraska	15	" "

17. Minnesota
18. Missouri
19. Montana
20. Nebraska
21. Nevada
22. New Hampshire
23. New Jersey
24. New York
25. North Carolina
26. North Dakota
27. Ohio
28. Oklahoma
29. Pennsylvania
30. Rhode Island
31. South Dakota
32. Tennessee
33. Utah
34. Vermont
35. Virginia
36. West Virginia
37. Wisconsin
38. Wyoming

C. Collegiate training

1. Idaho 49 semester hours
2. Colorado 60 " "
3. New Mexico 60 " "
4. Georgia 69 " "

D. No certification law

1. Massachusetts

E. Physical education

1. Virginia 6 semester hours
2. Alabama 12 " "
3. Georgia 12 " "
4. Utah 12 " "
5. Idaho 15 " "
6. Nebraska 15 " "

7.	Wyoming	15	semester	hours
8.	Oklahoma	16	"	"
9.	Iowa	20	"	"
10.	Mississippi	20	"	"
11.	Florida	21	"	"
12.	Arkansas	24	"	"
13.	New Hampshire	24	"	"
14.	Oregon	24	"	"
15.	West Virginia	24	"	"
16.	Arizona	30	"	"
17.	Colorado	30	"	"
18.	Maryland	30	"	"
19.	Wisconsin	30	"	"
20.	Illinois	35	"	"
21.	Kentucky	40	"	"
22.	Ohio	40	"	"
23.	New Jersey	48	"	"
24.	Delaware	60	"	"
25.	Kansas	65	"	"
26.	North Dakota - a minor is required			
27.	Minnesota - a major is required			

F. Education and psychology combination

1.	Arizona	13	semester	hours
2.	Kansas	18	"	"

7. Wyoming	15	semester hours
8. Oklahoma	16	" "
9. Iowa	20	" "
10. Mississippi	20	" "
11. Florida	21	" "
12. Arkansas	24	" "
13. New Hampshire	24	" "
14. Oregon	24	" "
15. West Virginia	24	" "
16. Arizona	30	" "
17. Colorado	30	" "
18. Maryland	30	" "
19. Wisconsin	30	" "
20. Illinois	35	" "
21. Kentucky	40	" "
22. Ohio	40	" "
23. New Jersey	48	" "
24. Delaware	60	" "
25. Kansas	65	" "
26. North Dakota - a minor is required		
27. Minnesota - a major is required		

F. Education and psychology combination

1. Arizona	13	semester hours
2. Kansas	18	" "

G. Professional education

1.	Arkansas	16	semester	hours
2.	California	15	"	"
3.	Delaware	6	"	"
4.	Florida	18	"	"
5.	Georgia	9	"	"
6.	Illinois	16	"	"
7.	Indiana	18	"	"
8.	Iowa	15	"	"
9.	Kentucky	18	"	"
10.	Louisiana	18	"	"
11.	Michigan	20	"	"
12.	Missouri	18	"	"
13.	Nevada	18	"	"
14.	New Jersey	18	"	"
15.	North Carolina	18	"	"
16.	Ohio	28	"	"
17.	Rhode Island	6 1/6	"	"
18.	South Carolina	18	"	"
19.	Tennessee	10	"	"
20.	Utah	22	"	"
21.	Vermont	12	"	"
22.	Virginia	9	"	"
23.	West Virginia	20	"	"
24.	Wisconsin	18	"	"

D. Professional education

1. Arkansas	16	semester	hours
2. California	15	"	"
3. Delaware	6	"	"
4. Florida	12	"	"
5. Georgia	9	"	"
6. Illinois	16	"	"
7. Indiana	18	"	"
8. Iowa	15	"	"
9. Kentucky	18	"	"
10. Louisiana	12	"	"
11. Michigan	20	"	"
12. Missouri	18	"	"
13. Nevada	18	"	"
14. New Jersey	18	"	"
15. North Carolina	18	"	"
16. Ohio	24	"	"
17. Rhode Island	6 1/6	"	"
18. South Carolina	18	"	"
19. Tennessee	10	"	"
20. Utah	22	"	"
21. Vermont	12	"	"
22. Virginia	9	"	"
23. West Virginia	20	"	"
24. Wisconsin	18	"	"

25.	Wyoming	16 semester hours

H. Education

1.	Alabama	15	"	"
2.	California	31	"	"
3.	Colorado	10	"	"
4.	Florida	18	"	"
5.	Idaho	34	"	"
6.	Illinois	33	"	"
7.	Indiana	30	"	"
8.	Kansas	40	"	"
9.	Kentucky	30	"	"
10.	Maryland	16	"	"
11.	Minnesota	15	"	"
12.	Montana	16	"	"
13.	Nebraska	18	"	"
14.	New Hampshire	12	"	"
15.	North Dakota	16	"	"
16.	Oklahoma	15	"	"
17.	Oregon	26 2/3	"	"
18.	South Carolina	48	"	"
19.	South Dakota	12	"	"
20.	Texas	60	"	"
21.	Washington	16	"	"
22.	West Virginia	28	"	"

25. Wyoming 15 " " "

B. Organization

1. Alabama 15 " " "

2. California 31 " " "

3. Colorado 10 " " "

4. Florida 14 " " "

5. Idaho 34 " " "

6. Illinois 33 " " "

7. Indiana 30 " " "

8. Kansas 40 " " "

9. Kentucky 30 " " "

10. Maryland 16 " " "

11. Minnesota 15 " " "

12. Montana 14 " " "

13. Nebraska 18 " " "

14. New Hampshire 12 " " "

15. North Dakota 15 " " "

16. Oklahoma 15 " " "

17. Oregon 25 1/2 " " "

18. South Carolina 40 " " "

19. South Dakota 12 " " "

20. Texas 60 " " "

21. Washington 34 " " "

22. West Virginia 20 " " "

J. Practice teaching

1.	Arizona	5	semester	hours
2.	Nevada	4	"	"
3.	New Jersey	5	"	"
4.	Oregon	4	"	"
5.	South Dakota	3	"	"

K. Health and physical education

1.	California	24	"	"
2.	Indiana	40	"	"
3.	Louisiana	41	"	"
4.	Michigan	24	"	"
5.	Missouri	24	"	"
6.	Montana	30	"	"
7.	New Mexico	20	"	"
8.	New York	36	"	"
9.	North Carolina	30	"	"
10.	South Carolina	24	"	"
11.	Tennessee	14	"	"

L. Agriculture

1.	Oklahoma	2	"	"

M. Minimum in all subjects

1.	Oklahoma	90%

Therefore, as there is very little agreement among state laws as to certification for teachers of physical education, it is almost an impossibility for the potential teacher of physical education to meet

I. Practice teaching

1. Arizona	5	semester hours
2. Nevada	4	" "
3. New Jersey	5	" "
4. Oregon	4	" "
5. South Dakota	3	" "

K. Health and physical education

1. California	24	" "
2. Indiana	40	" "
3. Louisiana	42	" "
4. Michigan	24	" "
5. Missouri	24	" "
6. Montana	30	" "
7. New Mexico	20	" "
8. New York	36	" "
9. North Carolina	30	" "
10. South Carolina	24	" "
11. Tennessee	24	" "

L. Agriculture

1. Oklahoma	2	" "

M. Minimum in all subjects

1. Oklahoma	90%

Therefore, as there is very little agreement among state laws as to certification for teachers of physical education, it is almost an impossibility for the potential teacher of physical education to meet

all of the requirements of all of the forty-eight states of the United States during a four year college course. Thus, a student preparing to teach physical education must select the courses which meet the requirements of the state in which he wishes to teach.

all of the requirements of all of the forty-eight states of the United States during a four year college course. Thus, a student preparing to teach physical education must select the courses which meet the requirements of the state in which he wishes to teach.

BIBLIOGRAPHY

Jameson, Emily D., Physical Education for the Preparation of General Elementary School Teachers. Contributions to Education, No. 402, New York, Teachers College, Columbia University, 1930.

McCarthy, Walter W. Prerequisite Undergraduate Work in Physical Education Necessary to Enter Certain Graduate Schools of Physical Education. Master's Thesis, Boston University, 1946.

Moorehouse, Laurence E. & Oscar Schaff "Prerequisites for Teacher Certification in Physical Education in the United States." Research Quarterly, October, 1942.

Neilson, N. P. "A Curriculum for the Professional Preparation of Physical Education Teachers for the Secondary Schools." Research Quarterly, March, 1931.

BIBLIOGRAPHY

Jameson, Emily D.. Physical Education for the Preparation of General Elementary School Teachers. Contributions to Education, No. 402. New York, Teachers College, Columbia University, 1930.

McCarthy, Walter W. Prerequisite Undergraduate Work in Physical Education necessary to Enter Certain Graduate Schools of Physical Education. Master's Thesis, Boston University, 1946.

Moorehouse, Lawrence E. & Oscar Scharf "Prerequisites for Teacher Certification in Physical Education in the United States." Research Quarterly, October, 1942.

Neilson, N. P. "A Curriculum for the Professional Preparation of Physical Education Teachers for the Secondary Schools." Research Quarterly, March, 1931.

BOSTON UNIVERSITY
1 1719 02544 2189

No. 9R-28613
SPEEDWAY LONG LIFE COVER
FOR SPEEDWAY FASTENER
MADE BY
SPEED PRODUCTS CO., INC.
LONG ISLAND CITY 1, N. Y., U. S. A.
PAT. No. 2204095 - OTHER PAT. PEND.